```
=> file hcaplus
FILE 'HCAPLUS' ENTERED AT 15:22:51 ON 03 FEB 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)
```



```
FILE COVERS 1907 - 3 Feb 2003  VOL 138 ISS 6
FILE LAST UPDATED: 2 Feb 2003  (20030202/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


=> d stat que
L1             8 SEA FILE=REGISTRY ABB=ON  PLU=ON  CEFTIOFUR/BI
L2             4 SEA FILE=REGISTRY ABB=ON  PLU=ON  CEFIXIME/BI
L3             6 SEA FILE=REGISTRY ABB=ON  PLU=ON  CEFOPERAZONE/BI
L4            26 SEA FILE=REGISTRY ABB=ON  PLU=ON  CEFOTAXIME/BI
L5             9 SEA FILE=REGISTRY ABB=ON  PLU=ON  CEFPODOXIME/BI
L6             8 SEA FILE=REGISTRY ABB=ON  PLU=ON  CEFTAZIDIME/BI
L7             8 SEA FILE=REGISTRY ABB=ON  PLU=ON  CEFTAZIDIME/BI
L8             4 SEA FILE=REGISTRY ABB=ON  PLU=ON  CEFTIZOXIME/BI
L9             6 SEA FILE=REGISTRY ABB=ON  PLU=ON  CEFTRIAXONE/BI
L10            3 SEA FILE=REGISTRY ABB=ON  PLU=ON  CEFPIROME/BI
L11            1 SEA FILE=REGISTRY ABB=ON  PLU=ON  CEFCLIDIN/BI
L12            6 SEA FILE=REGISTRY ABB=ON  PLU=ON  CEFMENOXIME/BI
L13            3 SEA FILE=REGISTRY ABB=ON  PLU=ON  CEFOZOPRAN/BI
L14        11614 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L1 OR L2 OR L3 OR L4 OR L5 OR
                 L6 OR L7 OR L8 OR L9 OR L10 OR L11 OR L12 OR L13 OR CEFTIOFUR?
                 OR CEFIPIME OR CEFIXIME OR CEFOPERAZONE OR CEFOTAXIME OR
                 CEFPODOXIME
L15         6834 SEA FILE=HCAPLUS ABB=ON  PLU=ON  CEFTAZIDIME OR CEFTAZIDIME OR
                 CEFTIZOXIME OR CEFTRAXONE OR CEFTRIAXONE OR CEFPRIOME OR
                 CEFPIROME OR CEFCLIDIN OR CEFMENOXIME OR CEFOZOPRANE
L17 (       1048)SEA FILE=REGISTRY ABB=ON  PLU=ON  XYLAN/BI
L18 (       1750)SEA FILE=REGISTRY ABB=ON  PLU=ON  CHITIN/BI
L19 (       1443)SEA FILE=REGISTRY ABB=ON  PLU=ON  CHITOSAN/BI
L20 (        368)SEA FILE=REGISTRY ABB=ON  PLU=ON  CHONDROITIN/BI
L22 (        293)SEA FILE=REGISTRY ABB=ON  PLU=ON  ALGINATE/BI
L24 (        957)SEA FILE=REGISTRY ABB=ON  PLU=ON  PECTIN/BI
L25 (       1438)SEA FILE=REGISTRY ABB=ON  PLU=ON  (POLYSACCHARIDE/BI OR
                 POLYSACCHARIDES/BI)
L28 (          1)SEA FILE=REGISTRY ABB=ON  PLU=ON  CYCLODEXTRINS/BI
L29 (          6)SEA FILE=REGISTRY ABB=ON  PLU=ON  CYCLOAMYLOSE/BI
L30 (        117)SEA FILE=REGISTRY ABB=ON  PLU=ON  CLATHRATE/BI
L32 (          2)SEA FILE=REGISTRY ABB=ON  PLU=ON  LIPOSOME/BI
L33 (          1)SEA FILE=REGISTRY ABB=ON  PLU=ON  POLYLACTIC (W) ACID
L52           64 SEA FILE=REGISTRY ABB=ON  PLU=ON  BIOPOLYMER/BI
L53        30404 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L52 OR BIOPOLYMER
L54          231 SEA FILE=REGISTRY ABB=ON  PLU=ON  (CARRAGEEN/BI OR CARRAGEENAN/
                 BI)
L55        10751 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L54 OR CARRAGEENAN
```

```
L56          28 SEA FILE=REGISTRY ABB=ON  PLU=ON  CARBOXYMETHYLCELLULOSE/BI
L57        6923 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L56 OR CARBOXYMETHYLCELLULOSE

L58         516 SEA FILE=REGISTRY ABB=ON  PLU=ON  POLYPROPYLENE GLYCOL?/CN
L59        1778 SEA FILE=REGISTRY ABB=ON  PLU=ON  POLYETHYLENE GLYCOL?/CN
L60      170552 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L59 OR (POLYETHYLENE OR POLY
                (W) ETHYLENE) (2A) GLYCOL
L61       35804 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L58 OR (POLYPROPYLENE OR POLY
                (W) PROPYLENE) (2A) GLYCOL
L62           5 SEA FILE=REGISTRY ABB=ON  PLU=ON  POLYACETATE/BI
L63         404 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L62 OR (POLYACETATE OR POLY
                (W) ACETATE)
L64       39550 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L32 OR LIPOSOME
L65       22952 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L28 OR CYCLODEXTRIN
L66         166 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L29 OR CYCLOAMYLOSE
L67        5668 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L30 OR CLATHRATE
L68        9882 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L29 OR AMYLOSE
L69          23 SEA FILE=REGISTRY ABB=ON  PLU=ON  POLY (L)XYLOSE
L70          51 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L69 OR (POLYXYLOSE OR POLY
                (2A) XYLOSE)
L71        4466 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L33 OR (POLYLACTIC OR POLY
                (W) LACTIC) (2A) ACID
L72        5923 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L17 OR XYLAN
L73       11676 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L18 OR CHITIN
L74       13648 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L19 OR CHITOSAN
L75       12206 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L20 OR CHONDROITIN (W)
                SULFATE
L76       18083 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L22 OR (SODIUM OR NA) (W)
                ALGINAT?
L77       19827 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L24 OR PECTIN
L78       74282 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L25 OR POLYSACCHARIDE
L79         332 SEA FILE=HCAPLUS ABB=ON  PLU=ON  FATTY (W) ACID (W) COMPLEX
L81          75 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (L14 OR L15) (L) (L53 OR L55
                OR L72 OR L73 OR L74 OR L75 OR L76 OR L57 OR L77 OR L78 OR L61
                OR L60 OR L63 OR L64 OR L79 OR L65 OR L66 OR L67 OR L68 OR L70
                OR L71)
L82       73448 SEA FILE=REGISTRY ABB=ON  PLU=ON  CALCIUM
L83       78644 SEA FILE=REGISTRY ABB=ON  PLU=ON  MAGNESIUM
L84       86473 SEA FILE=REGISTRY ABB=ON  PLU=ON  LITHIUM
L85           1 SEA FILE=REGISTRY ABB=ON  PLU=ON  IRON/CN
L86           1 SEA FILE=REGISTRY ABB=ON  PLU=ON  COPPER/CN
L87      129382 SEA FILE=REGISTRY ABB=ON  PLU=ON  ZINC
L88      197971 SEA FILE=REGISTRY ABB=ON  PLU=ON  ALUMINUM
L89      142592 SEA FILE=REGISTRY ABB=ON  PLU=ON  MANGANESE
L90           7 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L81 AND (CALCIUM OR L82 OR
                L83 OR L84 OR L85 OR L86 OR L87 OR L88 OR L89 OR MAGNESIUM OR
                LITHIUM OR IRON OR COPPER OR ZINC OR ALUMINUM OR MANGANESE)


=> d ibib abs hitrn l90 tot

L90  ANSWER 1 OF 7  HCAPLUS  COPYRIGHT 2003 ACS
ACCESSION NUMBER:         2002:675842  HCAPLUS
DOCUMENT NUMBER:          137:206570
TITLE:                    Oral pharmaceutical composition of cefpodoxime
                          proxetil
INVENTOR(S):              Malhotra, Mukta; Mathur, Rajeev Shankar; Malik, Rajiv
PATENT ASSIGNEE(S):       Ranbaxy Laboratories Limited, India
SOURCE:                   PCT Int. Appl., 20 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
```

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002067943	A1	20020906	WO 2002-IB602	20020227

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: IN 2001-DE190 A 20010227

AB The present invention relates to a stable pharmaceutical composition of cefpodoxime proxetil (I), for oral administration. A tablet contained I 49.79, **calcium** CM-cellulose 42.07, lactose 3.64, hydroxypropyl cellulose 1.64, sodium lauryl sulfate 2.05, and **magnesium** stearate 0.82%. The amount of I released in glycine buffer after 10 min was 88.8%.

IT **9000-07-1, Carrageenan** gum **9003-11-6,** Polyoxyethylene polyoxypropylene copolymer **9050-04-8, Calcium** carboxymethyl cellulose **11138-66-2,** Xanthan gum
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(oral pharmaceutical composition of **cefpodoxime** proxetil)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L90 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:935443 HCAPLUS
DOCUMENT NUMBER: 136:58849
TITLE: Compositions and methods to improve the oral absorption of antimicrobial agents
INVENTOR(S): Choi, Seung-Ho; Lee, Jeoung-Soo; Keith, Dennis
PATENT ASSIGNEE(S): Cubist Pharmaceuticals, Inc., USA; International Health Management Associates, Inc.; University of Utah Research Foundation
SOURCE: PCT Int. Appl., 70 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001097851	A2	20011227	WO 2001-US19625	20010618
WO 2001097851	A3	20020516		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6248360	B1	20010619	US 2000-598089	20000621

PRIORITY APPLN. INFO.:
US 2000-598089 A 20000621
US 2001-829405 A 20010409
US 2001-283976P P 20010416

AB The present invention provides compns. and methods for increasing absorption of antibacterial agents, particularly third generation cephalosporin antibacterial agents, in oral dosage solid and/or suspension forms. Specifically, the composition is comprised of a **biopolymer** that is preferably swellable and/or mucoadhesive, an antimicrobial agent, and a cationic binding agent contained within the **biopolymer** such that the binding agent is ionically bound or complexed to at least one member selected from the group consisting of the **biopolymer** and the antimicrobial agent. A solution of 44.5 mg **calcium** chloride in 10 mL water and 1.0 g of **ceftriaxone** in 10 mL water was added gradually to a solution of 400 mg **carrageenan** and the dispersion was centrifuged and the supernatant was lyophilized. The resulting composition comprized **carrageenan** 27.7, **ceftriaxone** 1, and **calcium** chloride 3.1%. Plasma concentration of different antimicrobial-**biopolymer** complexes after oral administration to rats was measured.

IT **7429-90-5DP, Aluminum**, conjugates with biopolymers and antimicrobial agents **7439-89-6DP, Iron**, conjugates with biopolymers and antimicrobial agents **7439-93-2DP, Lithium**, conjugates with biopolymers and antimicrobial agents **7439-95-4DP, Magnesium**, conjugates with biopolymers and antimicrobial agents **7439-96-5DP, Manganese**, conjugates with biopolymers and antimicrobial agents **7440-50-8DP, Copper**, conjugates with biopolymers and antimicrobial agents **7440-66-6DP, Zinc**, conjugates with biopolymers and antimicrobial agents **7440-70-2DP, Calcium**, conjugates with biopolymers and antimicrobial agents **10043-52-4DP, Calcium** chloride, conjugates with antimicrobials and biopolymers **62893-19-0DP, Cefoperazone**, conjugates with **biopolymers** and cationic binding agents **63527-52-6DP, Cefotaxime**, conjugates with **biopolymers** and cationic binding agents **65085-01-0DP, Cefmenoxime**, conjugates with **biopolymers** and cationic binding agents **68401-81-0DP, Ceftizoxime**, conjugates with **biopolymers** and cationic binding agents **72558-82-8DP, Ceftazidime**, conjugates with **biopolymers** and cationic binding agents **73384-59-5DP, Ceftriaxone**, conjugates with **biopolymers** and cationic binding agents **79350-37-1DP, Cefixime**, conjugates with **biopolymers** and cationic binding agents **80210-62-4DP, Cefpodoxime**, conjugates with **biopolymers** and cationic binding agents **80370-57-6DP, Ceftiofur**, conjugates with **biopolymers** and cationic binding agents **84957-29-9DP, Cefpirome**, conjugates with **biopolymers** and cationic binding agents **105239-91-6DP, Cefclidin**, conjugates with **biopolymers** and cationic binding agents **113359-04-9DP**, Cefozopran, conjugates with **biopolymers** and cationic binding agents
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(compns. and methods to improve oral absorption of antimicrobial agents)

L90 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:449182 HCAPLUS
DOCUMENT NUMBER: 135:51066
TITLE: Complexes to improve oral absorption of poorly absorbable antibiotics
INVENTOR(S): Choi, Seung-ho; Lee, Jeoung-soo
PATENT ASSIGNEE(S): International Health Management Associates, Inc., USA
SOURCE: U.S., 9 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6248360	B1	20010619	US 2000-598089	20000621
WO 2001097851	A2	20011227	WO 2001-US19625	20010618
WO 2001097851	A3	20020516		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2000-598089 A 20000621
US 2001-829405 A 20010409
US 2001-283976P P 20010416

AB The present invention provides compns. and methods for increasing absorption of poorly absorbable antibiotics, particularly third generation cephalosporin antibiotics, in oral dosage solid and/or suspension forms. Specifically, the composition is comprised of a **biopolymer** that is preferably swellable and/or mucoadhesive, a poorly absorbable antibiotic, and a cationic binding agent contained within the **biopolymer** such that the binding agent is tonically bound or complexed to at least 1 member selected from the group consisting of the **biopolymer** and the antibiotic. A **ceftriaxone-carrageenan-calcium** complex was prepared by the treatment of the antibiotic with **calcium** and **carrageenan**. The plasma drug concentration from the complex was greater than that obtained by administering the antibiotic in an uncomplexed state.

IT **7440-66-6DP, Zinc**, antibiotic complexes, biological studies **7440-70-2DP, Calcium**, antibiotic complexes, biological studies **73384-59-5DP, Ceftriaxone, carrageenan** complexes
RL: BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(complexes for improvement of oral absorption of poorly absorbable antibiotics)

IT **7429-90-5, Aluminum**, biological studies **7439-89-6, Iron**, biological studies **7439-95-4, Magnesium**, biological studies **7439-96-5, Manganese**, biological studies **7440-50-8, Copper**, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(complexes for improvement of oral absorption of poorly absorbable antibiotics)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L90 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:231880 HCAPLUS
DOCUMENT NUMBER: 136:11010
TITLE: Gel formation of cefpodoxime proxetil, basic antibiotic and its formulation design
AUTHOR(S): Hamaura, Takeshi
CORPORATE SOURCE: Product Development Laboratories, Sankyo Co., Ltd., Hiromachi, Shinagawa-ku, Tokyo, Japan

SOURCE: Pharm Tech Japan (2001), 17(4), 619-624, 627-632
CODEN: PTJAE9; ISSN: 0910-4739
PUBLISHER: Jiho
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

AB Cefpodoxime proxetil (CPDX-PR), an orally-active cephalosporin antibiotic, possesses one asym. carbon atom in the ester group and exists as a mixture of two amorphous diastereoisomers, CPDX-PR (A) and CPDX-PR (B). There are marked differences in the dissoln. behavior of CPDX-PRs (A) and (B). Although the dissolved amount of CPDX-PR(A) increases with time to reach equilibrium rapidly, CPDX-PR (B) exhibits supersatd. phenomena in strongly-acidic conditions. Super-saturated solns. of CPDX-PR(B) remain as clear solns. at first, but finally transform into gels. From elec. microscope data, it was revealed that spherical particles of crystalline CPDX-PR(B) HCl salt adhere together to constitute the framework of the gel and solution occupies gaps in the framework of the gel. CPDX-PR model tablets formulated a disintegrant with comparably low swelling pressure, exhibited decreased dissoln. in strongly-acidic conditions. A gel layer formed at the surface of the tablets must inhibit water penetration into the inner part of the tablets. Thus, the tablets disintegrate slowly, resulting in poor dissoln. However, formulation of a disintegrant having excellent swelling behavior was revealed to improve both the delayed disintegration and the decreased dissoln. of CPDX-PR tablets. The tablets with the improved dissoln. behavior apparently exhibited higher in vivo bioavailability in beagle dogs than that with the decreased dissoln. due to gel formation.

IT **9050-04-8**
RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(gel formation of **cefpodoxime** proxetil and its formulation design)

L90 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1997:795285 HCAPLUS
DOCUMENT NUMBER: 128:110395
TITLE: Compatibility of doxorubicin hydrochloride liposome injection with selected other drugs during simulated Y-site administration
AUTHOR(S): Trissel, Lawrence A.; Gilbert, Doward L.; Martinez, Juan F.
CORPORATE SOURCE: Division of Pharmacy, The University of Texas M. D. Anderson Cancer Center, Houston, TX, 77030, USA
SOURCE: American Journal of Health-System Pharmacy (1997), 54(23), 2708-2713
CODEN: AHSPEK; ISSN: 1079-2082
PUBLISHER: American Society of Health-System Pharmacists
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The compatibility of doxorubicin hydrochloride liposome injection with selected other drugs during simulated Y-site administration was studied. Five milliliters of doxorubicin hydrochloride liposome injection 0.4 mg/mL in 5% dextrose injection was combined with 5 mL of each of 82 other drugs in 5% dextrose injection or, if necessary to avoid incompatibilities with the diluent, 0.9% sodium chloride injection. The combinations were examined with the unaided eye in fluorescent light and in high-intensity monodirectional light to enhance visualization of small particles and low-level turbidity. The turbidity of each combination was measured as well. Particle sizing and counting were performed on selected combinations. Evaluations were performed initially and at one and four hours. All combinations were stored at room temperature (.apprx.23 °C). Most of the test drugs were compatible with doxorubicin hydrochloride liposome injection during the four-hour observation period. However, practitioners should be cautious in administering any drug simultaneously

with doxorubicin hydrochloride liposome injection until the integrity of the liposomes can be verified. Eighteen drugs exhibited unacceptable increases or decreases in measured turbidity or particulate formation within four hours. During simulated Y-site administration, doxorubicin hydrochloride 0.4 mg/mL (as the liposomal injection) in 5% dextrose injection was compatible with 64 of 82 other drugs for four hours at .apprx.23 °C and was incompatible with 18 of the test drugs.

IT **299-28-5**, **Calcium** gluconate **1492-18-8**, Leucovorin **calcium** **7487-88-9**, **Magnesium** sulfate, biological studies **62893-20-3**, **Cefoperazone** sodium **68401-82-1**, **Ceftizoxime** sodium **73547-61-2**, **Ceftazidime** sodium **74578-69-1**, **Ceftriaxone** sodium
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study) (doxorubicin hydrochloride **liposome** injection compatibility with other drugs)

L90 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1995:1003883 HCAPLUS
DOCUMENT NUMBER: 124:97432
TITLE: Decrease in dissolution of cefpodoxime proxetil tablets by gel formation and its improvement
AUTHOR(S): Hamaura, Takeshi; Terashima, Hidenari; Ohtani, Tomoko; Mori, Yohko; Seta, Yasuo; Kunihiro, Kusai; Kenji, Sasahara; Nishimura, Kenji
CORPORATE SOURCE: Product Development Laboratories, Sankyo Company Ltd., Tokyo, 140, Japan
SOURCE: Yakuzaigaku (1995), 55(3), 175-82
CODEN: YAKUA2; ISSN: 0372-7629
PUBLISHER: Nippon Yakuzai Gakkai
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

AB Cefpodoxime proxetil (CPDX-PR) has been developed as a racemate and only one of the two diastereoisomers forms a gel in strongly acidic conditions. CPDX-PR model tablets, formulated with a disintegrant with low swelling pressure, exhibited decreased dissoln. in strongly acetic conditions. These phenomena were explained by formation of a gel layer at tablet surface, inhibiting water penetration into the inner part of the tablets. Thus, the tablets are slow to disintegrate, resulting in poor dissoln. However, formulation with a disintegrant having excellent swelling behavior improved both the delayed disintegration and the decreased dissoln. of CPDX-PR tablets. Tablets with the improved dissoln. behavior apparently exhibited higher in vivo bioavailability in beagle dogs than those with the decreased dissoln. due to gel formation.

IT **9050-04-8**, CM-cellulose **calcium**
RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(disintegrant; decrease in dissoln. of **cefpodoxime** proxetil tablets by gel formation and its improvement)

L90 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1991:192593 HCAPLUS
DOCUMENT NUMBER: 114:192593
TITLE: Nonphospholipid pharmaceutical liposomes
INVENTOR(S): Radhakrishnan, Ramachandran
PATENT ASSIGNEE(S): Liposome Technology, Inc., USA
SOURCE: PCT Int. Appl., 96 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9006775	A1	19900628	WO 1989-US5525	19891206
W: AU, DK, FI, JP, NO				
RW: AT, BE, CH, DE, ES, FR, GB, IT, LU, NL, SE				
US 4906476	A	19900306	US 1988-284158	19881214
US 5043165	A	19910827	US 1988-284216	19881214
PRIORITY APPLN. INFO.:			US 1988-284158	19881214
			US 1988-284216	19881214

AB A nonconventional liposome composition consisting of nonphospholipid lipids, especially cholesterol and cholesterol ester salts, are used for encapsulation of drugs. They are useful for sustained release of steroids, and are suitable for treatment of inflammatory, arthritic, rheumatoid diseases, etc., especially as aerosols for interstitial lung disease. Beclomethasone dipropionate (I) 10 was incorporated into liposomes prepared with Na cholesterol sulfate 50 and cholesterol 40 mol %. Sustained release of I was observed in rats following intratracheal administration, in contrast to liposomes formulated with phosphatidylcholine and cholesterol.

IT **24352-55-4 99523-97-4 133058-04-5**
133058-05-6 133161-25-8 133161-26-9
133352-85-9 133352-86-0 133442-38-3
RL: BIOL (Biological study)
(pharmaceutical liposomes containing cholesterol and)

IT **63527-52-6, Cefotaxime**
RL: BIOL (Biological study)
(pharmaceutical **liposomes** containing cholesterol and salt of cholesterol esterand)

=> => d stat que
L1 8 SEA FILE=REGISTRY ABB=ON PLU=ON CEFTIOFUR/BI
L2 4 SEA FILE=REGISTRY ABB=ON PLU=ON CEFIXIME/BI
L3 6 SEA FILE=REGISTRY ABB=ON PLU=ON CEFOPERAZONE/BI
L4 26 SEA FILE=REGISTRY ABB=ON PLU=ON CEFOTAXIME/BI
L5 9 SEA FILE=REGISTRY ABB=ON PLU=ON CEFPODOXIME/BI
L6 8 SEA FILE=REGISTRY ABB=ON PLU=ON CEFTAZIDIME/BI
L7 8 SEA FILE=REGISTRY ABB=ON PLU=ON CEFTAZIDIME/BI
L8 4 SEA FILE=REGISTRY ABB=ON PLU=ON CEFTIZOXIME/BI
L9 6 SEA FILE=REGISTRY ABB=ON PLU=ON CEFTRIAXONE/BI
L10 3 SEA FILE=REGISTRY ABB=ON PLU=ON CEFPIROME/BI
L11 1 SEA FILE=REGISTRY ABB=ON PLU=ON CEFCLIDIN/BI
L12 6 SEA FILE=REGISTRY ABB=ON PLU=ON CEFMENOXIME/BI
L13 3 SEA FILE=REGISTRY ABB=ON PLU=ON CEFOZOPRAN/BI
L14 11614 SEA FILE=HCAPLUS ABB=ON PLU=ON L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR L8 OR L9 OR L10 OR L11 OR L12 OR L13 OR CEFTIOFUR? OR CEFIPIME OR CEFIXIME OR CEFOPERAZONE OR CEFOTAXIME OR CEFPODOXIME
L15 6834 SEA FILE=HCAPLUS ABB=ON PLU=ON CEFTAZIDIME OR CEFTAZIDIME OR CEFTIZOXIME OR CEFTRAXONE OR CEFTRIAXONE OR CEFPRIOME OR CEFPIROME OR CEFCLIDIN OR CEFMENOXIME OR CEFOZOPRANE
L17 (1048) SEA FILE=REGISTRY ABB=ON PLU=ON XYLAN/BI
L18 (1750) SEA FILE=REGISTRY ABB=ON PLU=ON CHITIN/BI
L19 (1443) SEA FILE=REGISTRY ABB=ON PLU=ON CHITOSAN/BI
L20 (368) SEA FILE=REGISTRY ABB=ON PLU=ON CHONDROITIN/BI
L22 (293) SEA FILE=REGISTRY ABB=ON PLU=ON ALGINATE/BI
L24 (957) SEA FILE=REGISTRY ABB=ON PLU=ON PECTIN/BI
L25 (1438) SEA FILE=REGISTRY ABB=ON PLU=ON (POLYSACCHARIDE/BI OR POLYSACCHARIDES/BI)
L28 (1) SEA FILE=REGISTRY ABB=ON PLU=ON CYCLODEXTRINS/BI
L29 (6) SEA FILE=REGISTRY ABB=ON PLU=ON CYCLOAMYLOSE/BI
L30 (117) SEA FILE=REGISTRY ABB=ON PLU=ON CLATHRATE/BI
L32 (2) SEA FILE=REGISTRY ABB=ON PLU=ON LIPOSOME/BI
L33 (1) SEA FILE=REGISTRY ABB=ON PLU=ON POLYLACTIC (W) ACID

```
L52          64 SEA FILE=REGISTRY ABB=ON  PLU=ON  BIOPOLYMER/BI
L53       30404 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L52 OR BIOPOLYMER
L54         231 SEA FILE=REGISTRY ABB=ON  PLU=ON  (CARRAGEEN/BI OR CARRAGEENAN/
                BI)
L55       10751 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L54 OR CARRAGEENAN
L56          28 SEA FILE=REGISTRY ABB=ON  PLU=ON  CARBOXYMETHYLCELLULOSE/BI
L57        6923 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L56 OR CARBOXYMETHYLCELLULOSE

L58         516 SEA FILE=REGISTRY ABB=ON  PLU=ON  POLYPROPYLENE GLYCOL?/CN
L59        1778 SEA FILE=REGISTRY ABB=ON  PLU=ON  POLYETHYLENE GLYCOL?/CN
L60      170552 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L59 OR (POLYETHYLENE OR POLY
                (W) ETHYLENE) (2A) GLYCOL
L61       35804 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L58 OR (POLYPROPYLENE OR POLY
                (W) PROPYLENE) (2A) GLYCOL
L62           5 SEA FILE=REGISTRY ABB=ON  PLU=ON  POLYACETATE/BI
L63         404 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L62 OR (POLYACETATE OR POLY
                (W) ACETATE)
L64       39550 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L32 OR LIPOSOME
L65       22952 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L28 OR CYCLODEXTRIN
L66         166 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L29 OR CYCLOAMYLOSE
L67        5668 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L30 OR CLATHRATE
L68        9882 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L29 OR AMYLOSE
L69          23 SEA FILE=REGISTRY ABB=ON  PLU=ON  POLY (L)XYLOSE
L70          51 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L69 OR (POLYXYLOSE OR POLY
                (2A) XYLOSE)
L71        4466 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L33 OR (POLYLACTIC OR POLY
                (W) LACTIC) (2A) ACID
L72        5923 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L17 OR XYLAN
L73       11676 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L18 OR CHITIN
L74       13648 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L19 OR CHITOSAN
L75       12206 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L20 OR CHONDROITIN (W)
                SULFATE
L76       18083 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L22 OR (SODIUM OR NA) (W)
                ALGINAT?
L77       19827 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L24 OR PECTIN
L78       74282 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L25 OR POLYSACCHARIDE
L79         332 SEA FILE=HCAPLUS ABB=ON  PLU=ON  FATTY (W) ACID (W) COMPLEX
L81          75 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (L14 OR L15) (L) (L53 OR L55
                OR L72 OR L73 OR L74 OR L75 OR L76 OR L57 OR L77 OR L78 OR L61
                OR L60 OR L63 OR L64 OR L79 OR L65 OR L66 OR L67 OR L68 OR L70
                OR L71)
L82       73448 SEA FILE=REGISTRY ABB=ON  PLU=ON  CALCIUM
L83       78644 SEA FILE=REGISTRY ABB=ON  PLU=ON  MAGNESIUM
L84       86473 SEA FILE=REGISTRY ABB=ON  PLU=ON  LITHIUM
L85           1 SEA FILE=REGISTRY ABB=ON  PLU=ON  IRON/CN
L86           1 SEA FILE=REGISTRY ABB=ON  PLU=ON  COPPER/CN
L87      129382 SEA FILE=REGISTRY ABB=ON  PLU=ON  ZINC
L88      197971 SEA FILE=REGISTRY ABB=ON  PLU=ON  ALUMINUM
L89      142592 SEA FILE=REGISTRY ABB=ON  PLU=ON  MANGANESE
L90           7 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L81 AND (CALCIUM OR L82 OR
                L83 OR L84 OR L85 OR L86 OR L87 OR L88 OR L89 OR MAGNESIUM OR
                LITHIUM OR IRON OR COPPER OR ZINC OR ALUMINUM OR MANGANESE)
L91           1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (L81 AND METAL) NOT L90


=> d ibib abs hitrn l91 tot

L91  ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2003 ACS
ACCESSION NUMBER:         1999:8553  HCAPLUS
DOCUMENT NUMBER:          130:177099
TITLE:                    Studies on drugs absorption using liposome to simulate
                          biomembrane
AUTHOR(S):                Luo, Yun-Jing; Shen, Han-Xi; Liu, Hai-Tao; Kong,
```

De-Ming
CORPORATE SOURCE: Department of Chemistry, Nankai University, Tianjin, 300071, Peop. Rep. China
SOURCE: Gaodeng Xuexiao Huaxue Xuebao (1998), 19(11), 1730-1734
CODEN: KTHPDM; ISSN: 0251-0790
PUBLISHER: Gaodeng Jiaoyu Chubanshe
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

AB The absorptions of liposol. salicylic acid, water-soluble vitamin B6, **ceftriaxone**, the quinolone antibacterial norfloxacin and anticancer doxorubicin were discussed by using, **liposome** as biomembrane model and comparison with cell membrane. The absorption of salicylic acid whose absorption curve is linear depends on the passive diffusion. The exptl. result of vitamin B6 supports the opinion that the absorption of vitamin B6 depends on proteins which lie in membranes. The absorption of vitamin B6 is a chem. process, so absorption curve is nonlinear. The absorption mode of **ceftriaxone** is a simple diffusion. The absorption of norfloxacin depends on the effects of **metal** ions. Under the driving force of nucleic acid in cells, doxorubicin was absorbed through biomembrane.

IT **73384-59-5, Ceftriaxone**
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(studies on drugs absorption using **liposome** to simulate biomembrane)

=> => d stat que

L1	8	SEA FILE=REGISTRY ABB=ON PLU=ON	CEFTIOFUR/BI
L2	4	SEA FILE=REGISTRY ABB=ON PLU=ON	CEFIXIME/BI
L3	6	SEA FILE=REGISTRY ABB=ON PLU=ON	CEFOPERAZONE/BI
L4	26	SEA FILE=REGISTRY ABB=ON PLU=ON	CEFOTAXIME/BI
L5	9	SEA FILE=REGISTRY ABB=ON PLU=ON	CEFPODOXIME/BI
L6	8	SEA FILE=REGISTRY ABB=ON PLU=ON	CEFTAZIDIME/BI
L7	8	SEA FILE=REGISTRY ABB=ON PLU=ON	CEFTAZIDIME/BI
L8	4	SEA FILE=REGISTRY ABB=ON PLU=ON	CEFTIZOXIME/BI
L9	6	SEA FILE=REGISTRY ABB=ON PLU=ON	CEFTRIAXONE/BI
L10	3	SEA FILE=REGISTRY ABB=ON PLU=ON	CEFPIROME/BI
L11	1	SEA FILE=REGISTRY ABB=ON PLU=ON	CEFCLIDIN/BI
L12	6	SEA FILE=REGISTRY ABB=ON PLU=ON	CEFMENOXIME/BI
L13	3	SEA FILE=REGISTRY ABB=ON PLU=ON	CEFOZOPRAN/BI
L14	11614	SEA FILE=HCAPLUS ABB=ON PLU=ON	L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR L8 OR L9 OR L10 OR L11 OR L12 OR L13 OR CEFTIOFUR? OR CEFIPIME OR CEFIXIME OR CEFOPERAZONE OR CEFOTAXIME OR CEFPODOXIME
L15	6834	SEA FILE=HCAPLUS ABB=ON PLU=ON	CEFTAZIDIME OR CEFTAZIDIME OR CEFTIZOXIME OR CEFTRAXONE OR CEFTRIAXONE OR CEFPRIOME OR CEFPIROME OR CEFCLIDIN OR CEFMENOXIME OR CEFOZOPRANE
L17 (	1048)	SEA FILE=REGISTRY ABB=ON PLU=ON	XYLAN/BI
L18 (	1750)	SEA FILE=REGISTRY ABB=ON PLU=ON	CHITIN/BI
L19 (	1443)	SEA FILE=REGISTRY ABB=ON PLU=ON	CHITOSAN/BI
L20 (	368)	SEA FILE=REGISTRY ABB=ON PLU=ON	CHONDROITIN/BI
L22 (	293)	SEA FILE=REGISTRY ABB=ON PLU=ON	ALGINATE/BI
L24 (	957)	SEA FILE=REGISTRY ABB=ON PLU=ON	PECTIN/BI
L25 (	1438)	SEA FILE=REGISTRY ABB=ON PLU=ON	(POLYSACCHARIDE/BI OR POLYSACCHARIDES/BI)
L28 (	1)	SEA FILE=REGISTRY ABB=ON PLU=ON	CYCLODEXTRINS/BI
L29 (	6)	SEA FILE=REGISTRY ABB=ON PLU=ON	CYCLOAMYLOSE/BI
L30 (	117)	SEA FILE=REGISTRY ABB=ON PLU=ON	CLATHRATE/BI
L32 (	2)	SEA FILE=REGISTRY ABB=ON PLU=ON	LIPOSOME/BI
L33 (	1)	SEA FILE=REGISTRY ABB=ON PLU=ON	POLYLACTIC (W) ACID
L52	64	SEA FILE=REGISTRY ABB=ON PLU=ON	BIOPOLYMER/BI

```
L53       30404 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L52 OR BIOPOLYMER
L54         231 SEA FILE=REGISTRY ABB=ON  PLU=ON  (CARRAGEEN/BI OR CARRAGEENAN/
                BI)
L55       10751 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L54 OR CARRAGEENAN
L56          28 SEA FILE=REGISTRY ABB=ON  PLU=ON  CARBOXYMETHYLCELLULOSE/BI
L57        6923 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L56 OR CARBOXYMETHYLCELLULOSE

L58         516 SEA FILE=REGISTRY ABB=ON  PLU=ON  POLYPROPYLENE GLYCOL?/CN
L59        1778 SEA FILE=REGISTRY ABB=ON  PLU=ON  POLYETHYLENE GLYCOL?/CN
L60      170552 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L59 OR (POLYETHYLENE OR POLY
                (W) ETHYLENE) (2A) GLYCOL
L61       35804 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L58 OR (POLYPROPYLENE OR POLY
                (W) PROPYLENE) (2A) GLYCOL
L62           5 SEA FILE=REGISTRY ABB=ON  PLU=ON  POLYACETATE/BI
L63         404 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L62 OR (POLYACETATE OR POLY
                (W) ACETATE)
L64       39550 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L32 OR LIPOSOME
L65       22952 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L28 OR CYCLODEXTRIN
L66         166 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L29 OR CYCLOAMYLOSE
L67        5668 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L30 OR CLATHRATE
L68        9882 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L29 OR AMYLOSE
L69          23 SEA FILE=REGISTRY ABB=ON  PLU=ON  POLY (L)XYLOSE
L70          51 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L69 OR (POLYXYLOSE OR POLY
                (2A) XYLOSE)
L71        4466 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L33 OR (POLYLACTIC OR POLY
                (W) LACTIC) (2A) ACID
L72        5923 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L17 OR XYLAN
L73       11676 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L18 OR CHITIN
L74       13648 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L19 OR CHITOSAN
L75       12206 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L20 OR CHONDROITIN (W)
                SULFATE
L76       18083 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L22 OR (SODIUM OR NA) (W)
                ALGINAT?
L77       19827 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L24 OR PECTIN
L78       74282 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L25 OR POLYSACCHARIDE
L79         332 SEA FILE=HCAPLUS ABB=ON  PLU=ON  FATTY (W) ACID (W) COMPLEX
L81          75 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (L14 OR L15) (L) (L53 OR L55
                OR L72 OR L73 OR L74 OR L75 OR L76 OR L57 OR L77 OR L78 OR L61
                OR L60 OR L63 OR L64 OR L79 OR L65 OR L66 OR L67 OR L68 OR L70
                OR L71)
L82       73448 SEA FILE=REGISTRY ABB=ON  PLU=ON  CALCIUM
L83       78644 SEA FILE=REGISTRY ABB=ON  PLU=ON  MAGNESIUM
L84       86473 SEA FILE=REGISTRY ABB=ON  PLU=ON  LITHIUM
L85           1 SEA FILE=REGISTRY ABB=ON  PLU=ON  IRON/CN
L86           1 SEA FILE=REGISTRY ABB=ON  PLU=ON  COPPER/CN
L87      129382 SEA FILE=REGISTRY ABB=ON  PLU=ON  ZINC
L88      197971 SEA FILE=REGISTRY ABB=ON  PLU=ON  ALUMINUM
L89      142592 SEA FILE=REGISTRY ABB=ON  PLU=ON  MANGANESE
L90           7 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L81 AND (CALCIUM OR L82 OR
                L83 OR L84 OR L85 OR L86 OR L87 OR L88 OR L89 OR MAGNESIUM OR
                LITHIUM OR IRON OR COPPER OR ZINC OR ALUMINUM OR MANGANESE)
L91           1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (L81 AND METAL) NOT L90
L92           7 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L81 AND (ORAL? OR MOUTH)
L93           3 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L92 NOT (L90 OR L91)


=> d ibib abs hitrn l93 tot

L93  ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2003 ACS
ACCESSION NUMBER:         2002:391569  HCAPLUS
DOCUMENT NUMBER:          136:374901
TITLE:                    Antibiotics adducts with natural polysaccharide
                          polymers in the form of aqueous solutions
```

INVENTOR(S): Anzaghi, Piergiorgio; Stefli, Rosanna
PATENT ASSIGNEE(S): Pharma Biotech Limited, Cyprus
SOURCE: PCT Int. Appl., 16 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002040057	A1	20020523	WO 2001-IB2172	20011116
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002012632	A5	20020527	AU 2002-12632	20011116

PRIORITY APPLN. INFO.: IT 2000-MI2478 A 20001117
WO 2001-IB2172 W 20011116

AB Antibiotics adducts with natural **polysaccharide** polymers in the form of aqueous solns., endowed with better antibacterial activity if compared to the starting antibiotic are described. An extemporaneous solution of the adduct 60% **ceftriaxone**-40% dextran 5 was prepared

IT **73384-59-5DP, Ceftriaxone**, adducts with dextran
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(antibiotics adducts with natural **polysaccharide** polymers in the form of aqueous solns.)

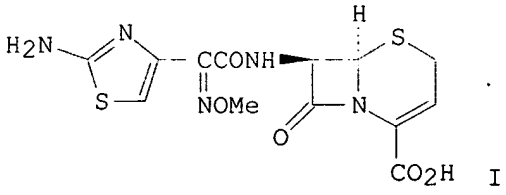
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L93 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:261905 HCAPLUS
DOCUMENT NUMBER: 129:32211
TITLE: Cefpodoxime-proxetil protection from intestinal lumen hydrolysis by oil-in-water submicron emulsions
AUTHOR(S): Crauste-Manciet, Sylvie; Brossard, Denis; Decroix, Marie-Odile; Farinotti, Robert; Chaumeil, Jean-Claude
CORPORATE SOURCE: Laboratoire de Pharmacotechnie et Dermopharmacie, Faculte des Sciences Pharmaceutiques et Biologiques, Paris V, Paris, 75006, Fr.
SOURCE: International Journal of Pharmaceutics (1998), 165(1), 97-106
CODEN: IJPHDE; ISSN: 0378-5173
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Cefpodoxime proxetil is an **orally** active, broad spectrum, third generation cephalosporin ester. This prodrug was previously found to be hydrolyzed in vitro both in rabbit and human duodenal washing by a cholinesterase. The objective of this work was to find a formulation which can protect the prodrug from enzymic attack. In order to protect the prodrug from enzymic hydrolysis, the objective was to include it into the oil phase of an oil-in-water (o/w) emulsion. Somehow, cefpodoxime proxetil posed specific problems related to the solubilization. The solubilization was obtained with a mixed medium-chain-triglycerides (MCT)/blends of mono-, di- and triglycerides oil phase and the optimal

ratio was defined to be 60:40 (weight/weight) in order to obtain emulsification.
The emulsifier was a soybean lecithin alone or in mixts. with Polysorbate 20. This nonionic surfactant was chosen since it was found to directly inhibit the hydrolysis of cefpodoxime proxetil in vitro using duodenal washings. The o/w submicron emulsions were be effective in protecting the prodrug from enzymic attack in rabbit duodenal washings compared with a micellar solution and an aqueous solution of cefpodoxime proxetil. An o/w submicron
emulsion incorporating Polysorbate 20 was e the most protective, which can corroborate the inhibitory role of Polysorbate itself.
IT **9005-64-5**, Polysorbate 20 **9005-70-3**, Polysorbate 85
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**cefpodoxime**-proxetil protection from intestinal lumen hydrolysis by oil-in-water submicron emulsions)
REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

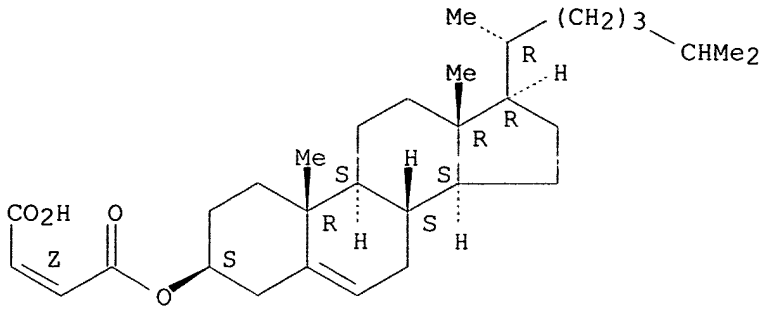
L93 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1983:204314 HCAPLUS
DOCUMENT NUMBER: 98:204314
TITLE: Effect of ethyl cellulose in a medium-chain triglyceride on the bioavailability of ceftizoxime
AUTHOR(S): Ueda, Ikuo; Shimojo, Fumio; Kozatani, Jun
CORPORATE SOURCE: Res. Lab., Fujisawa Pharm. Co., Ltd., Osaka, 532, Japan
SOURCE: Journal of Pharmaceutical Sciences (1983), 72(4), 454-8
CODEN: JPMSAE; ISSN: 0022-3549
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB The **oral** bioavailability of **ceftizoxime** Na (I Na) [**68401-82-1**] was improved by formulations containing Et cellulose [9004-57-3] and medium-chain triglycerides (Miglyol 812), as compared with aqueous solns. of I. A formulation containing 500 mg I Na, 5.0 mL medium-chain triglyceride, and 200 mg Et cellulose gave a larger area under the curve and higher urinary excretion of I than a formulation containing 50 mg Et cellulose instead of 200 mg. The urinary excretion of I was 7.1-10.3% when **polyethylene glycol**, olive oil, or H2O was used as the vehicle, as compared to 16.2-37.7% when the triglyceride + Et cellulose or olive oil + Et cellulose was used as the vehicle. Serum concns. attained exceeded the min. inhibitory concns. for most bacterial pathogens.

```
=> => sel hit rn l90 1-7
E1 THROUGH E41 ASSIGNED

=> sel hit rn l91 1
E42 THROUGH E42 ASSIGNED

=> sel hit rn l92 1-7
E43 THROUGH E60 ASSIGNED

=> sel hit rn l93 1-3
E61 THROUGH E63 ASSIGNED

=> file reg
FILE 'REGISTRY' ENTERED AT 15:28:27 ON 03 FEB 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:    2 FEB 2003  HIGHEST RN 484639-64-7
DICTIONARY FILE UPDATES:   2 FEB 2003  HIGHEST RN 484639-64-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> => d his l94

     (FILE 'HCAPLUS' ENTERED AT 15:22:51 ON 03 FEB 2003)
                SEL HIT RN L90 1-7
                SEL HIT RN L91 1
                SEL HIT RN L92 1-7
                SEL HIT RN L93 1-3

     FILE 'REGISTRY' ENTERED AT 15:28:27 ON 03 FEB 2003
L94           43 S E1-E63

=> d ide can l94 tot

L94  ANSWER 1 OF 43  REGISTRY  COPYRIGHT 2003 ACS
RN   133442-38-3  REGISTRY
CN   Cholest-5-en-3-ol (3β)-, hydrogen 2-butenedioate, lithium salt,
     [3(Z)]- (9CI)  (CA INDEX NAME)
FS   STEREOSEARCH
MF   C31 H48 O4 . Li
SR   CA
LC   STN Files:   CA, CAPLUS, TOXCENTER
CRN  (129357-50-2)

Absolute stereochemistry.
Double bond geometry as shown.
```



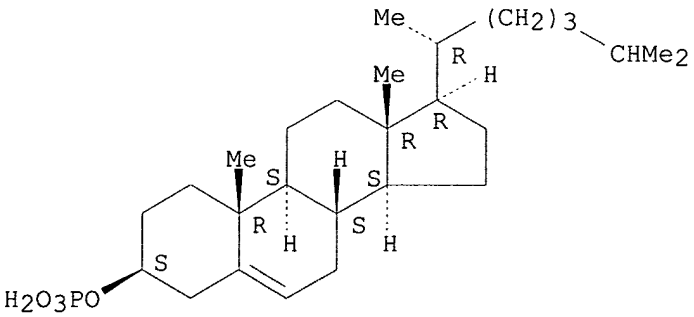
● Li

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 114:192593

L94 ANSWER 2 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **133352-86-0** REGISTRY
CN Cholest-5-en-3-ol (3β)-, dihydrogen phosphate, calcium salt (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Calcium cholesterol phosphate
FS STEREOSEARCH
MF C27 H47 O4 P . x Ca
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER
CRN (4358-16-1)

Absolute stereochemistry.



●x Ca

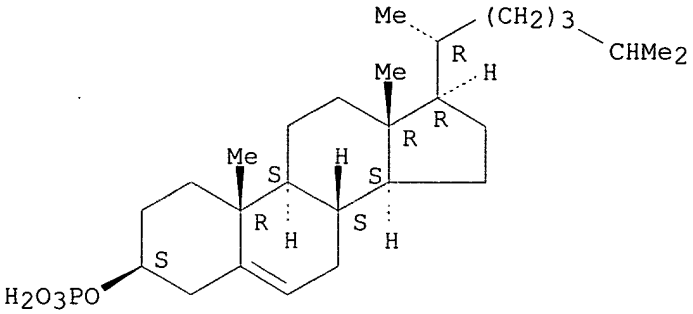
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 114:192593

L94 ANSWER 3 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **133352-85-9** REGISTRY
CN Cholest-5-en-3-ol (3β)-, dihydrogen phosphate, magnesium salt (9CI) (CA INDEX NAME)
OTHER NAMES:

CN Magnesium cholesterol phosphate
FS STEREOSEARCH
MF C27 H47 O4 P . x Mg
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER
CRN (4358-16-1)

Absolute stereochemistry.



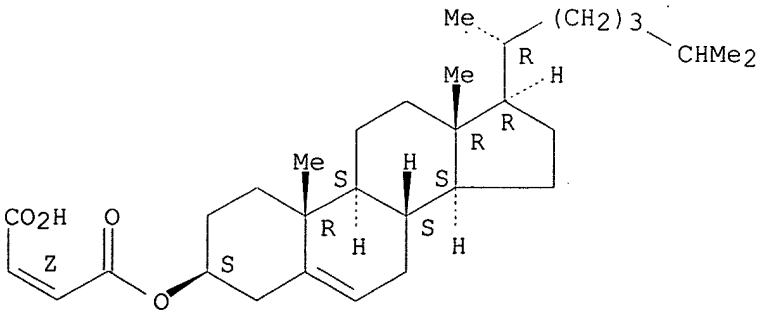
● x Mg

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 114:192593

L94 ANSWER 4 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **133161-26-9** REGISTRY
CN Cholest-5-en-3-ol (3β)-, hydrogen 2-butenedioate, calcium salt, [3(Z)]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H48 O4 . 1/2 Ca
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER
CRN (129357-50-2)

Absolute stereochemistry.
Double bond geometry as shown.



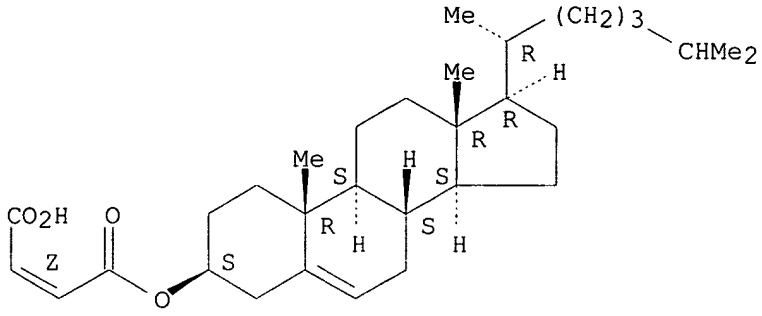
● 1/2 Ca

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 114:192593

L94 ANSWER 5 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **133161-25-8** REGISTRY
CN Cholest-5-en-3-ol (3β)-, hydrogen 2-butenedioate, magnesium salt, [3(Z)]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H48 O4 . 1/2 Mg
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER
CRN (129357-50-2)

Absolute stereochemistry.
Double bond geometry as shown.



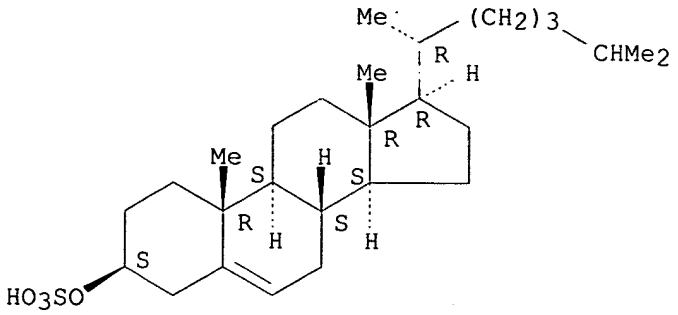
●1/2 Mg

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 114:192593

L94 ANSWER 6 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **133058-05-6** REGISTRY
CN Cholest-5-en-3-ol (3β)-, hydrogen sulfate, magnesium salt (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Magnesium cholesteryl sulfate
FS STEREOSEARCH
MF C27 H46 O4 S . 1/2 Mg
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER
CRN (1256-86-6)

Absolute stereochemistry.



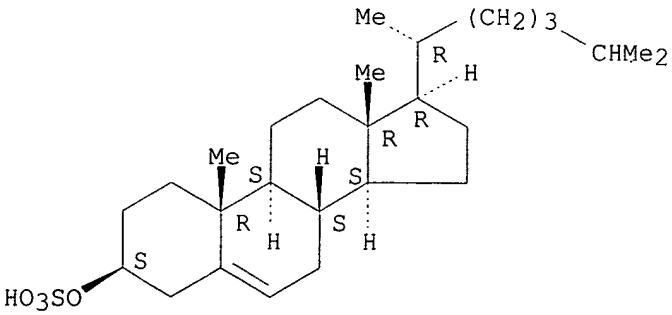
● 1/2 Mg

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 114:192593

L94 ANSWER 7 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **133058-04-5** REGISTRY
CN Cholest-5-en-3-ol (3β)-, hydrogen sulfate, lithium salt (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H46 O4 S . Li
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER
(*File contains numerically searchable property data)
CRN (1256-86-6)

Absolute stereochemistry.



● Li

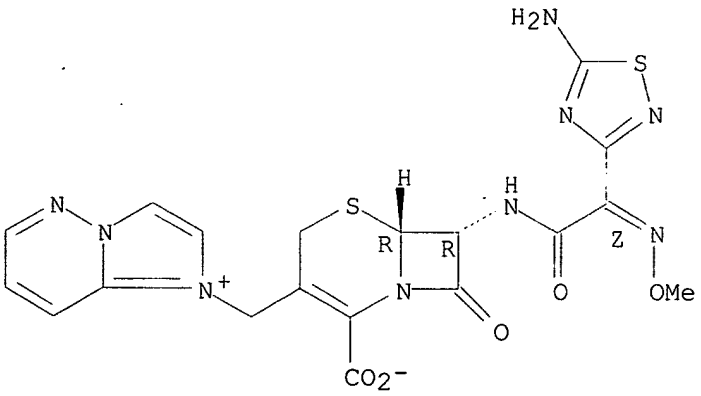
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 114:192593

L94 ANSWER 8 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **113359-04-9** REGISTRY
CN Imidazo[1,2-b]pyridazinium, 1-[[(6R,7R)-7-[[(2Z)-(5-amino-1,2,4-thiadiazol-3-yl)(methoxyimino)acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-, inner salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:
CN 1,2,4-Thiadiazole, imidazo[1,2-b]pyridazinium deriv.
CN Imidazo[1,2-b]pyridazinium, 1-[[7-[[(5-amino-1,2,4-thiadiazol-3-yl)(methoxyimino)acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-, inner salt, [6R-[6α,7β(Z)]]-
OTHER NAMES:
CN Cefozopran
CN SCE 2787
FS STEREOSEARCH
DR 128007-70-5, 125882-76-0, 123572-82-7, 133790-04-2
MF C19 H17 N9 O5 S2
SR CA
LC STN Files: ADISINSIGHT, ADISNEWS, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CBNB, CIN, DDFU, DRUGNL, DRUGPAT, DRUGU, DRUGUPDATES, EMBASE, MEDLINE, MRCK*, PHAR, PROMT, SYNTHLINE, TOXCENTER, USAN, USPATFULL
(*File contains numerically searchable property data)
Other Sources: WHO

Absolute stereochemistry.
Double bond geometry as shown.



170 REFERENCES IN FILE CA (1962 TO DATE)
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
169 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:69776

REFERENCE 2: 138:69764

REFERENCE 3: 137:347477

REFERENCE 4: 137:291106

REFERENCE 5: 137:257189

REFERENCE 6: 137:244539

REFERENCE 7: 137:226242

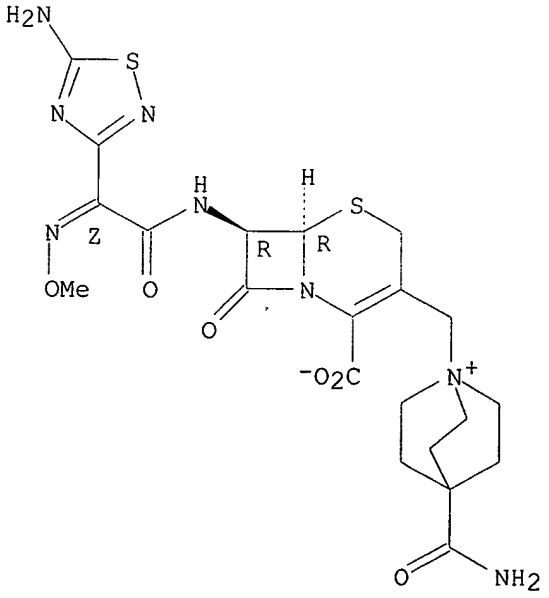
REFERENCE 8: 137:152227

REFERENCE 9: 137:149790

REFERENCE 10: 137:114536

L94 ANSWER 9 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **105239-91-6** REGISTRY
CN 1-Azoniabicyclo[2.2.2]octane, 4-(aminocarbonyl)-1-[[(6R,7R)-7-[[(2Z)-(5-amino-1,2,4-thiadiazol-3-yl)(methoxyimino)acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-, inner salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,2,4-Thiadiazole, 1-azoniabicyclo[2.2.2]octane deriv.
CN 1-Azoniabicyclo[2.2.2]octane, 4-(aminocarbonyl)-1-[[7-[[(5-amino-1,2,4-thiadiazol-3-yl)(methoxyimino)acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-, inner salt, [6R-[6α,7β(Z)]]-
OTHER NAMES:
CN Antibiotic E 1040
CN Cefclidin
CN Cefclidine
CN E 1040
CN E 1040 (antibiotic)
FS STEREOSEARCH
MF C21 H26 N8 O6 S2
CI COM
SR CA
LC STN Files: ADISINSIGHT, BIOBUSINESS, BIOSIS, CA, CAPLUS, CIN, DDFU, DRUGNL, DRUGPAT, DRUGU, DRUGUPDATES, MRCK*, PHAR, PROMT, RTECS*, SYNTHLINE, TOXCENTER, USAN, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.
Double bond geometry as shown.



102 REFERENCES IN FILE CA (1962 TO DATE)
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
102 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:347477

REFERENCE 2: 137:341930

REFERENCE 3: 137:299611

REFERENCE 4: 137:149790

REFERENCE 5: 137:114536

REFERENCE 6: 136:172755

REFERENCE 7: 136:156464

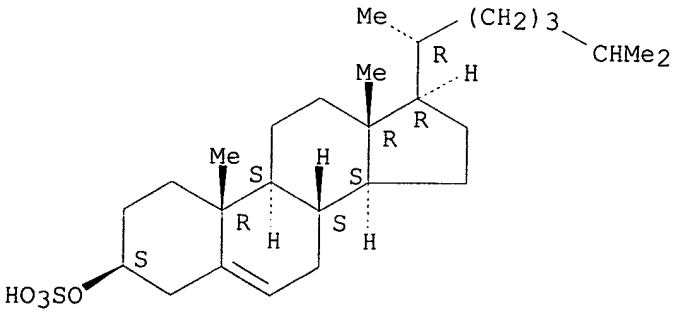
REFERENCE 8: 136:156463

REFERENCE 9: 136:58849

REFERENCE 10: 134:222563

L94 ANSWER 10 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **99523-97-4** REGISTRY
CN Cholest-5-en-3-ol (3β)-, hydrogen sulfate, calcium salt (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Calcium cholesteryl sulfate
CN Cholesterol hydrogen sulfate calcium salt
CN Cholesteryl sulfate calcium salt
FS STEREOSEARCH
DR 127565-96-2
MF C27 H46 O4 S . 1/2 Ca
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER
(*File contains numerically searchable property data)
CRN (1256-86-6)

Absolute stereochemistry.



●1/2 Ca

5 REFERENCES IN FILE CA (1962 TO DATE)
5 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 115:166374

REFERENCE 2: 114:192593

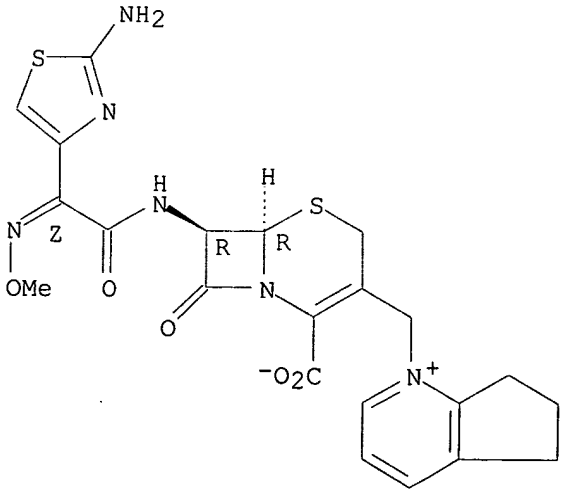
REFERENCE 3: 113:11949

REFERENCE 4: 113:11932

REFERENCE 5: 104:10400

L94 ANSWER 11 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **84957-29-9** REGISTRY
CN 5H-Cyclopenta[b]pyridinium, 1-[[(6R,7R)-7-[[(2Z)-(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-6,7-dihydro-, inner salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 5H-1-Pyrindinium, 1-[[7-[[(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-6,7-dihydro-, inner salt, [6R-[6α,7β(Z)]]-
OTHER NAMES:
CN 5H-Cyclopenta[b]pyridinium, 1-[[7-[[(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-6,7-dihydro-, inner salt, [6R-[6α,7β(Z)]]-
CN Antibiotic HR 810
CN Cefpirome
CN Cefrom
CN HR 810
FS STEREOSEARCH
MF C22 H22 N6 O5 S2
CI COM
LC STN Files: ADISINSIGHT, ADISNEWS, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CIN, DDFU, DRUGNL, DRUGPAT, DRUGU, DRUGUPDATES, EMBASE, IPA, MEDLINE, MRCK*, PHAR, PROMT, SYNTHLINE, TOXCENTER, USAN, USPATFULL
(*File contains numerically searchable property data)
Other Sources: WHO

Absolute stereochemistry.
Double bond geometry as shown.



591 REFERENCES IN FILE CA (1962 TO DATE)
6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
593 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:69776

REFERENCE 2: 138:69764

REFERENCE 3: 138:51770

REFERENCE 4: 138:2166

REFERENCE 5: 137:347477

REFERENCE 6: 137:259865

REFERENCE 7: 137:163290

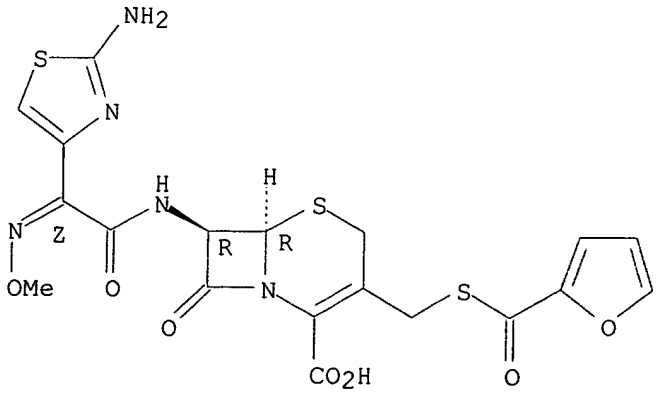
REFERENCE 8: 137:152227

REFERENCE 9: 137:149790

REFERENCE 10: 137:121424

L94 ANSWER 12 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **80370-57-6** REGISTRY
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2Z)-(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-3-[[(2-furanylcarbonyl)thio]methyl]-8-oxo-, (6R,7R)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-3-[[(2-furanylcarbonyl)thio]methyl]-8-oxo-, [6R-[6α,7β(Z)]]-
OTHER NAMES:
CN Ceftiofur
CN CM 31916
FS STEREOSEARCH
MF C19 H17 N5 O7 S3
CI COM
LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CIN, DDFU, DIOGENES, DRUGU, EMBASE, MEDLINE, MRCK*, PROMT, TOXCENTER, USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: WHO

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

191 REFERENCES IN FILE CA (1962 TO DATE)

7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
192 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:69785

REFERENCE 2: 138:32649

REFERENCE 3: 137:384233

REFERENCE 4: 137:322471

REFERENCE 5: 137:309620

REFERENCE 6: 137:241635

REFERENCE 7: 137:226224

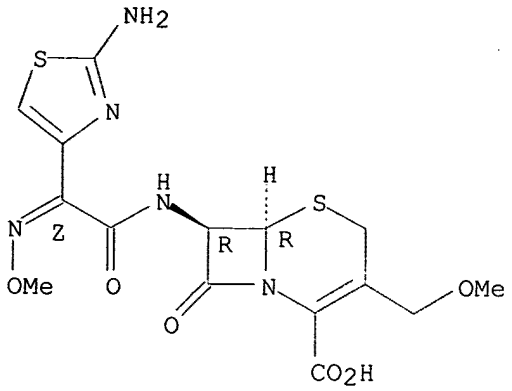
REFERENCE 8: 137:200279

REFERENCE 9: 137:198165

REFERENCE 10: 137:190750

L94 ANSWER 13 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **80210-62-4** REGISTRY
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2Z)-(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-3-(methoxymethyl)-8-oxo-, (6R,7R)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-3-(methoxymethyl)-8-oxo-, [6R-[6α,7β(Z)]]-
OTHER NAMES:
CN Cefpodoxime
CN Cefpodoxime acid
CN R 3763
FS STEREOSEARCH
MF C15 H17 N5 O6 S2
CI COM
LC STN Files: ADISNEWS, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CBNB, CHEMINFORMRX, CIN, DDFU, DIOGENES, DRUGPAT, DRUGU, DRUGUPDATES, EMBASE, IPA, MEDLINE, PHAR, PROMT, TOXCENTER, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: WHO

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

318 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
318 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:69776

REFERENCE 2: 138:52242

REFERENCE 3: 138:44695

REFERENCE 4: 138:22020

REFERENCE 5: 137:382147

REFERENCE 6: 137:366241

REFERENCE 7: 137:349153

REFERENCE 8: 137:349152

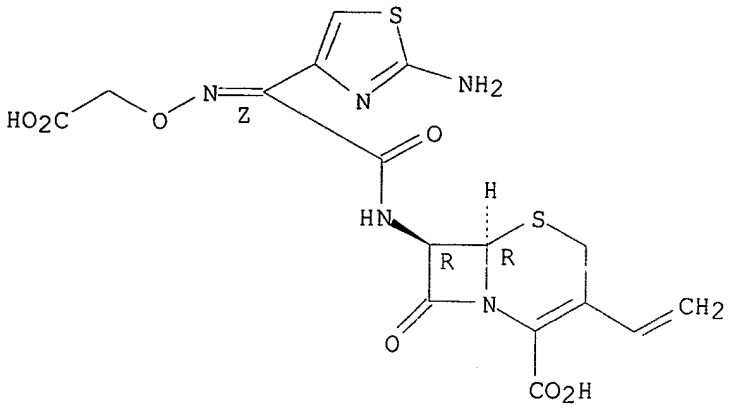
REFERENCE 9: 137:335069

REFERENCE 10: 137:322531

L94 ANSWER 14 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **79350-37-1** REGISTRY
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2Z)-(2-amino-4-thiazolyl)[(carboxymethoxy)imino]acetyl]amino]-3-ethenyl-8-oxo-, (6R,7R)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2-amino-4-thiazolyl)[(carboxymethoxy)imino]acetyl]amino]-3-ethenyl-8-oxo-, [6R-[6α,7β(Z)]]-
OTHER NAMES:
CN Cefixime
CN Cephoral
CN CL 284635
CN FK 027
CN FR 17027
CN Oroken
CN Suprax
FS STEREOSEARCH
DR 214265-67-5

MF C16 H15 N5 O7 S2
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CIN, CSCHEM, DDFU, DIOGENES, DRUGNL, DRUGPAT, DRUGU, DRUGUPDATES, EMBASE, IPA, MEDLINE, MRCK*, MSDS-OHS, PHAR, PHARMASEARCH, PROMT, RTECS*, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: WHO

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

717 REFERENCES IN FILE CA (1962 TO DATE)
7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
717 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:52587

REFERENCE 2: 138:29161

REFERENCE 3: 138:19297

REFERENCE 4: 137:382158

REFERENCE 5: 137:366241

REFERENCE 6: 137:349153

REFERENCE 7: 137:349152

REFERENCE 8: 137:347477

REFERENCE 9: 137:346142

REFERENCE 10: 137:335069

L94 ANSWER 15 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **74578-69-1** REGISTRY
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2Z)-(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-8-oxo-3-[[(1,2,5,6-tetrahydro-2-methyl-5,6-dioxo-1,2,4-triazin-3-yl)thio]methyl]-, disodium salt, (6R,7R)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-8-oxo-3-[[(1,2,5,6-tetrahydro-2-methyl-5,6-dioxo-1,2,4-triazin-3-yl)thio]methyl]-, disodium salt, [6R-[6α,7β(Z)]]-

OTHER NAMES:

CN Cefatriaxone
CN Ceftriaxone disodium
CN Ceftriaxone sodium
CN Cephtriaxone
CN Longaceph
CN Ro 13-9904
CN Rocephin
CN X 13-9904

FS STEREOSEARCH
MF C18 H18 N8 O7 S3 . 2 Na
CI COM
LC STN Files: ADISNEWS, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DIOGENES, DRUGPAT, DRUGUPDATES, EMBASE, IPA, MSDS-OHS, PHAR, PHARMASEARCH, PROMT, RTECS*, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL

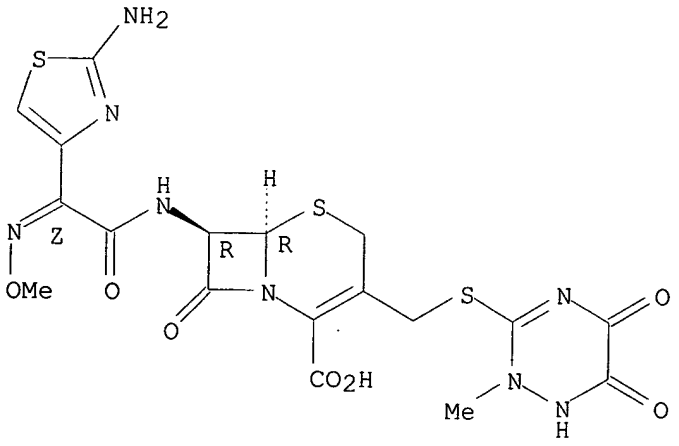
(*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

CRN (73384-59-5)

Absolute stereochemistry.
Double bond geometry as shown.



●2 Na

183 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
183 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:362547

REFERENCE 2: 137:257592

REFERENCE 3: 137:154929

REFERENCE 4: 137:119619

REFERENCE 5: 137:711

REFERENCE 6: 136:369552

REFERENCE 7: 136:355103

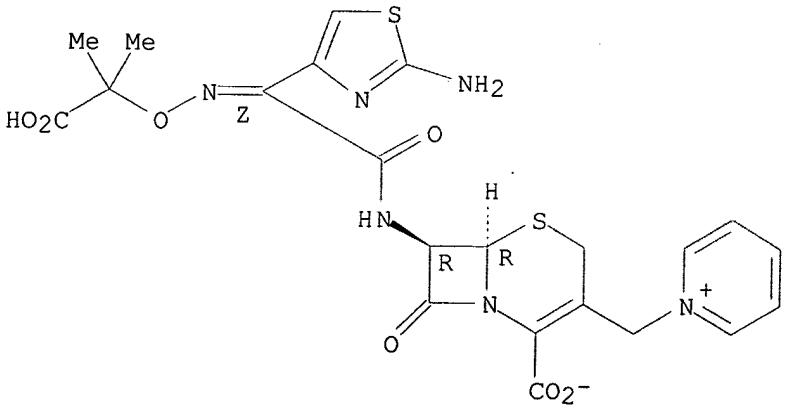
REFERENCE 8: 136:319352

REFERENCE 9: 136:304035

REFERENCE 10: 136:90988

L94 ANSWER 16 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **73547-61-2** REGISTRY
CN Pyridinium, 1-[[(6R,7R)-7-[[(2Z)-(2-amino-4-thiazolyl)[(1-carboxy-1-methylethoxy)imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-, inner salt, monosodium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Pyridinium, 1-[[7-[[(2-amino-4-thiazolyl)[(1-carboxy-1-methylethoxy)imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-, inner salt, monosodium salt, [6R-[6α,7β(Z)]]-
OTHER NAMES:
CN Ceftazidime sodium
CN GR 20263 monosodium salt
FS STEREOSEARCH
MF C22 H22 N6 O7 S2 . Na
LC STN Files: CA, CAPLUS, CIN, DIOGENES, DRUGPAT, IPA, MSDS-OHS, TOXCENTER, USPATFULL
CRN (72558-82-8)

Absolute stereochemistry.
Double bond geometry as shown.



● Na

15 REFERENCES IN FILE CA (1962 TO DATE)
15 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:170587

REFERENCE 2: 130:335196

REFERENCE 3: 128:110395

REFERENCE 4: 127:214608

REFERENCE 5: 127:90147

REFERENCE 6: 126:135559

REFERENCE 7: 126:36948

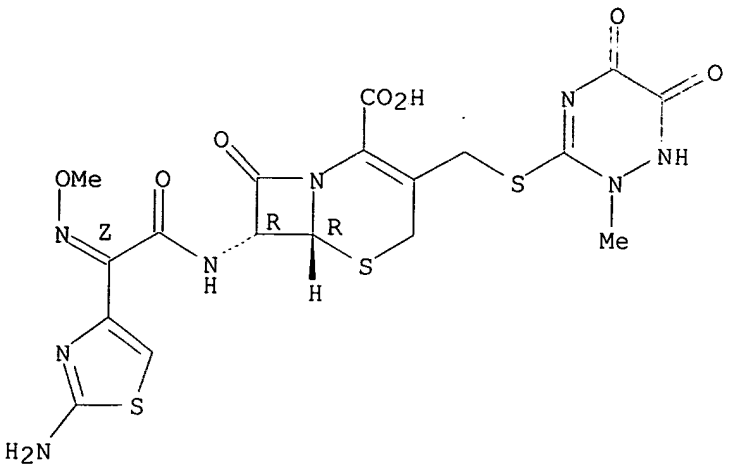
REFERENCE 8: 112:104629

REFERENCE 9: 105:120614

REFERENCE 10: 101:78747

L94 ANSWER 17 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **73384-59-5** REGISTRY
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2Z)-(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-8-oxo-3-[[(1,2,5,6-tetrahydro-2-methyl-5,6-dioxo-1,2,4-triazin-3-yl)thio]methyl]-, (6R,7R)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-8-oxo-3-[[(1,2,5,6-tetrahydro-2-methyl-5,6-dioxo-1,2,4-triazin-3-yl)thio]methyl]-, [6R-[6α,7β(Z)]]-
OTHER NAMES:
CN Biotrakson
CN Ceftriaxone
CN Rocefin
FS STEREOSEARCH
DR 380149-23-5
MF C18 H18 N8 O7 S3
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGNL, DRUGPAT, DRUGU, DRUGUPDATES, EMBASE, IFICDB, IFIUDB, IPA, MEDLINE, MRCK*, NIOSHTIC, PHAR, PHARMASEARCH, PROMT, RTECS*, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: EINECS**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2376 REFERENCES IN FILE CA (1962 TO DATE)
15 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2382 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:78450

REFERENCE 2: 138:70922

REFERENCE 3: 138:69793

REFERENCE 4: 138:69790

REFERENCE 5: 138:69776

REFERENCE 6: 138:66192

REFERENCE 7: 138:66102

REFERENCE 8: 138:52614

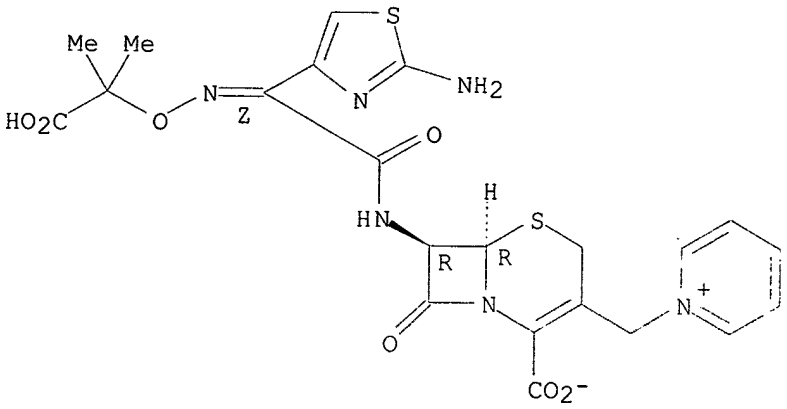
REFERENCE 9: 138:52597

REFERENCE 10: 138:52587

L94 ANSWER 18 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **72558-82-8** REGISTRY
CN Pyridinium, 1-[[(6R,7R)-7-[[(2Z)-(2-amino-4-thiazolyl)[(1-carboxy-1-methylethoxy)imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-, inner salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Pyridinium, 1-[[7-[[(2-amino-4-thiazolyl)[(1-carboxy-1-methylethoxy)imino]acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-, hydroxide, inner salt, [6R-[6α,7β(Z)]]-
OTHER NAMES:
CN (6R,7R)-7-[(Z)-2-(Aminothiazol-4-yl)-2-(2-carboxypropoxyimino)acetamido]-3-(1-pyridiniummethyl)ceph-3-em-4-carboxylate
CN Biotum
CN Ceftacidin
CN Ceftazidime

CN Ceftazidine
CN Fortaz
CN Fortum
CN GR 20263
CN Modacin
CN Tazicef
CN Tazidime
FS STEREOSEARCH
DR 133943-58-5
MF C22 H22 N6 O7 S2
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CEN, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DIOGENES, DRUGPAT, DRUGU, EMBASE, IFICDB, IFIUDB, MRCK*, MSDS-OHS, NIOSHTIC, PHAR, PHARMASEARCH, PIRA, PROMT, RTECS*, TOXCENTER, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: EINECS**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.
Double bond geometry as shown.



3419 REFERENCES IN FILE CA (1962 TO DATE)
16 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3426 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:69776

REFERENCE 2: 138:69764

REFERENCE 3: 138:69353

REFERENCE 4: 138:69078

REFERENCE 5: 138:66192

REFERENCE 6: 138:65570

REFERENCE 7: 138:61354

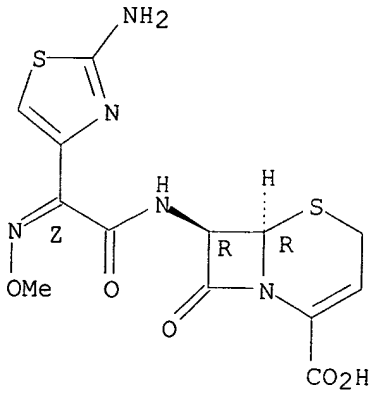
REFERENCE 8: 138:52593

REFERENCE 9: 138:51836

REFERENCE 10: 138:51770

L94 ANSWER 19 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **68401-82-1** REGISTRY
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2Z)-(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-8-oxo-, monosodium salt, (6R,7R)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-8-oxo-, monosodium salt, [6R-[6α,7β(Z)]]-
OTHER NAMES:
CN Ceftizoxime sodium
CN Ceftizoxime sodium salt
CN FK 749
CN Sodium 7-[2-(2-aminothiazol-4-yl)-2-methoxyiminoacetamido]-3-cephem-4-carboxylate
FS STEREOSEARCH
MF C13 H13 N5 O5 S2 . Na
CI COM
LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CBNB, CHEMLIST, CIN, DIOGENES, DRUGPAT, EMBASE, IFICDB, IFIUDB, IPA, MRCK*, MSDS-OHS, PHAR, PROMT, RTECS*, TOXCENTER, USAN, USPATFULL
(*File contains numerically searchable property data)
CRN (68401-81-0)

Absolute stereochemistry.
Double bond geometry as shown.



● Na

88 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
88 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:217244

REFERENCE 2: 136:11106

REFERENCE 3: 135:170587

REFERENCE 4: 135:51028

REFERENCE 5: 135:37082

REFERENCE 6: 134:290352

REFERENCE 7: 134:242521

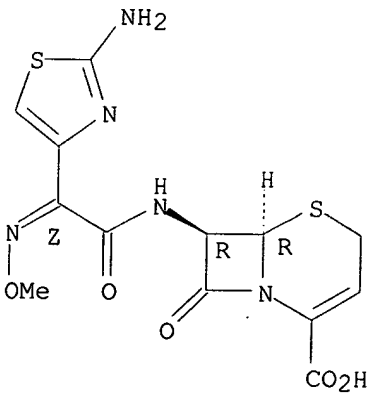
REFERENCE 8: 131:170633

REFERENCE 9: 128:110395

REFERENCE 10: 127:325983

L94 ANSWER 20 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **68401-81-0** REGISTRY
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2Z)-(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-8-oxo-, (6R,7R)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-8-oxo-, [6R-[6α,7β(Z)]]-
OTHER NAMES:
CN Ceftisomin
CN Ceftizoxime
CN Epocelin
FS STEREOSEARCH
MF C13 H13 N5 O5 S2
CI COM
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CIN, DDFU, DIOGENES, DRUGPAT, DRUGU, EMBASE, IFICDB, IFIUDB, IPA, MEDLINE, MRCK*, NIOSHTIC, PHAR, PROMT, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: WHO

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

979 REFERENCES IN FILE CA (1962 TO DATE)
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
979 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:69780

REFERENCE 2: 138:49428

REFERENCE 3: 138:12452

REFERENCE 4: 137:347477

REFERENCE 5: 137:237750

REFERENCE 6: 137:226224

REFERENCE 7: 137:210914

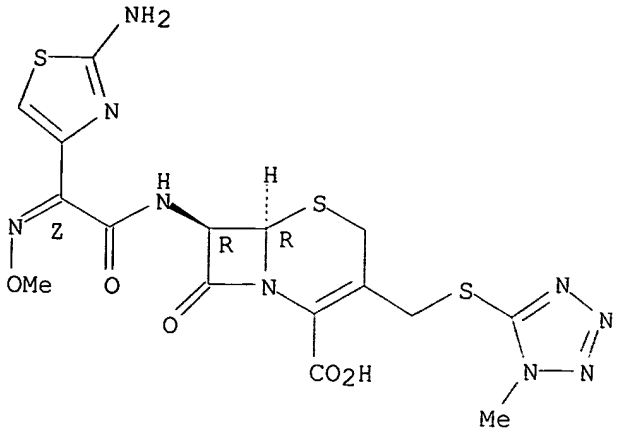
REFERENCE 8: 137:169369

REFERENCE 9: 137:166077

REFERENCE 10: 137:149790

L94 ANSWER 21 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **65085-01-0** REGISTRY
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2Z)-(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-3-[[(1-methyl-1H-tetrazol-5-yl)thio]methyl]-8-oxo-, (6R,7R)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-3-[[(1-methyl-1H-tetrazol-5-yl)thio]methyl]-8-oxo-, [6R-[6α,7β(Z)]]-
OTHER NAMES:
CN AB 50912
CN Cefmenoxime
CN SCE 1365
FS STEREOSEARCH
DR 74512-79-1, 74565-79-0
MF C16 H17 N9 O5 S3
CI COM
LC STN Files: ADISNEWS, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CIN, DDFU, DRUGPAT, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, PHAR, PROMT, TOXCENTER, USAN, USPATFULL
(*File contains numerically searchable property data)
Other Sources: WHO

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

538 REFERENCES IN FILE CA (1962 TO DATE)
7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
538 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:347477

REFERENCE 2: 137:149790

REFERENCE 3: 137:114536

REFERENCE 4: 137:90836

REFERENCE 5: 136:172755

REFERENCE 6: 136:156464

REFERENCE 7: 136:156463

REFERENCE 8: 136:123678

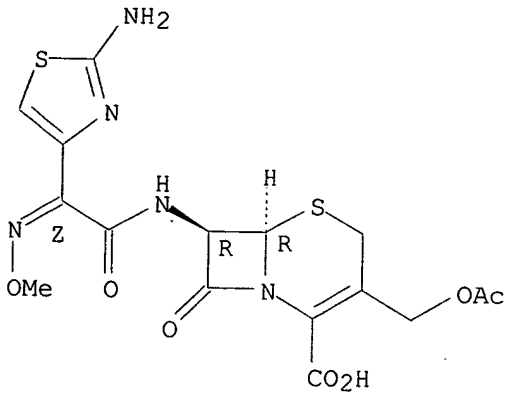
REFERENCE 9: 136:58849

REFERENCE 10: 135:73913

L94 ANSWER 22 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **63527-52-6** REGISTRY
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 3-[(acetyloxy)methyl]-7-[[(2Z)-(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-8-oxo-, (6R,7R)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 3-[(acetyloxy)methyl]-7-[[(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-8-oxo-, [6R-[6α,7β(Z)]]-
OTHER NAMES:
CN Cefotaxime
CN Cephotaxime
CN Claforan
FS STEREOSEARCH
MF C16 H17 N5 O7 S2
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMLIST, CIN,

CSCHEM, DDFU, DIOGENES, DRUGPAT, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, NAPRALERT, NIOSHTIC, PHARMASEARCH, PROMT, RTECS*, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: EINECS**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4548 REFERENCES IN FILE CA (1962 TO DATE)
32 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
4555 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:69776

REFERENCE 2: 138:69767

REFERENCE 3: 138:69078

REFERENCE 4: 138:66192

REFERENCE 5: 138:65570

REFERENCE 6: 138:52593

REFERENCE 7: 138:52588

REFERENCE 8: 138:52242

REFERENCE 9: 138:51770

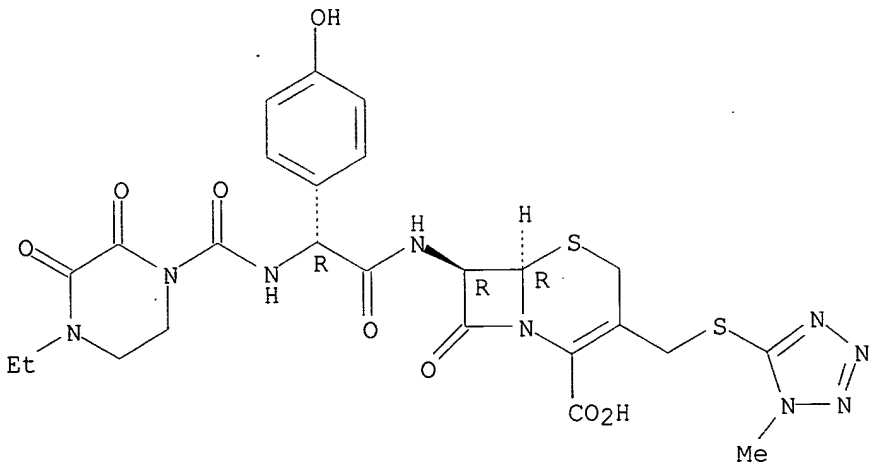
REFERENCE 10: 138:35956

L94 ANSWER 23 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **62893-20-3** REGISTRY
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2R)-[[(4-ethyl-2,3-dioxo-1-piperazinyl)carbonyl]amino](4-hydroxyphenyl)acetyl]amino]-3-[[(1-methyl-1H-tetrazol-5-yl)thio]methyl]-8-oxo-, monosodium salt, (6R,7R)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,

7-[[[[(4-ethyl-2,3-dioxo-1-piperazinyl)carbonyl]amino](4-hydroxyphenyl)acetyl]amino]-3-[[(1-methyl-1H-tetrazol-5-yl)thio]methyl]-8-oxo-, monosodium salt, [6R-[6α,7β(R*)]]-

OTHER NAMES:
CN Cefoperazone sodium
CN Cefoperazone sodium salt
CN Sodium cefoperazone
CN T 1551
FS STEREOSEARCH
MF C25 H27 N9 O8 S2 . Na
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, DIOGENES, DRUGPAT, EMBASE, IPA, MRCK*, PROMT, RTECS*, SYNTHLINE, TOXCENTER, USAN, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (62893-19-0)

Absolute stereochemistry.



111 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
111 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:362547

REFERENCE 2: 137:329562

REFERENCE 3: 137:175107

REFERENCE 4: 137:145696

REFERENCE 5: 136:304035

REFERENCE 6: 135:318356

REFERENCE 7: 135:51028

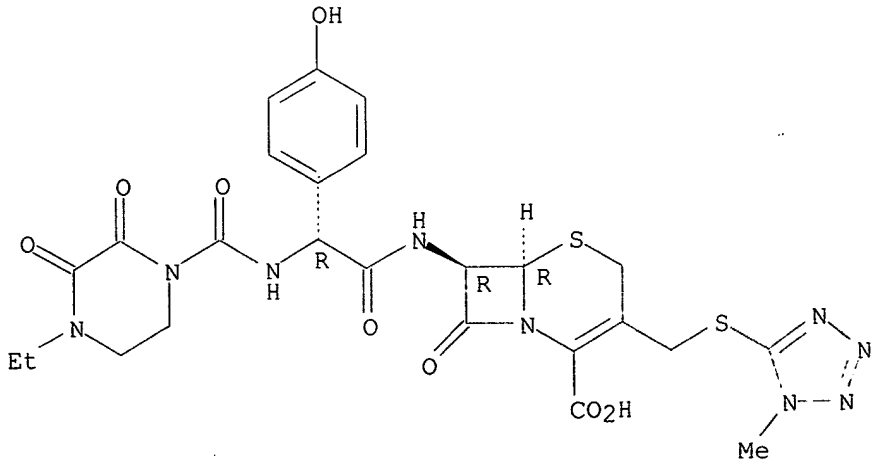
REFERENCE 8: 135:37082

REFERENCE 9: 134:27272

REFERENCE 10: 133:237755

L94 ANSWER 24 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **62893-19-0** REGISTRY
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2R)-[[(4-ethyl-2,3-dioxo-1-piperazinyl)carbonyl]amino](4-hydroxyphenyl)acetyl]amino]-3-[[(1-methyl-1H-tetrazol-5-yl)thio]methyl]-8-oxo-, (6R,7R)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[[[(4-ethyl-2,3-dioxo-1-piperazinyl)carbonyl]amino](4-hydroxyphenyl)acetyl]amino]-3-[[(1-methyl-1H-tetrazol-5-yl)thio]methyl]-8-oxo-, [6R-[6α,7β(R*)]]-
OTHER NAMES:
CN Cefob
CN Cefobid
CN Cefoperazine
CN Cefoperazone
CN Cephaperazon
CN Medocef
FS STEREOSEARCH
DR 72448-63-6
MF C25 H27 N9 O8 S2
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGPAT, DRUGU, EMBASE, IFICDB, IFIUDB, IPA, MEDLINE, MRCK*, PHAR, PHARMASEARCH, PROMT, RTECS*, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: EINECS**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2038 REFERENCES IN FILE CA (1962 TO DATE)
13 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2042 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:69776

REFERENCE 2: 138:66192

REFERENCE 3: 138:44717

REFERENCE 4: 138:11124

REFERENCE 5: 138:2166

REFERENCE 6: 137:382143

REFERENCE 7: 137:366212

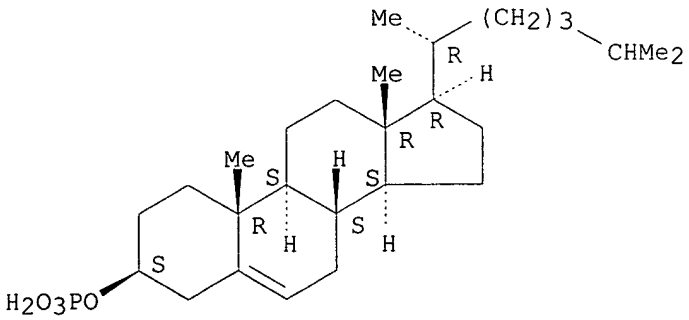
REFERENCE 8: 137:351600

REFERENCE 9: 137:347477

REFERENCE 10: 137:336792

L94 ANSWER 25 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **24352-55-4** REGISTRY
CN Cholest-5-en-3-ol (3β)-, dihydrogen phosphate, dilithium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Cholesterol, dihydrogen phosphate, dilithium salt (8CI)
FS STEREOSEARCH
MF C27 H47 O4 P . 2 Li
LC STN Files: CA, CAPLUS, TOXCENTER
CRN (4358-16-1)

Absolute stereochemistry.



●2 Li

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 114:192593

REFERENCE 2: 72:3631

L94 ANSWER 26 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **11138-66-2** REGISTRY

CN Xanthan gum (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Actigum CX 9
CN ADM 40
CN B 1459
CN Biopolymer 9702
CN Biopolymer XB 23
CN Biozan R
CN Bisfect XA 200
CN Bistop
CN Chemicogel
CN Echogum
CN Echogum F
CN Echogum RD
CN Echogum SF
CN Echogum T
CN Ekogum
CN Ekogum ketorol
CN Enorflo X
CN Flocon 1035
CN Flocon 4800
CN Flocon 4800C
CN Flodrill S
CN Galaxy XB
CN Gums, xanthomonas
CN Idvis
CN Jungbunzlauer ST
CN K 5C151
CN K 9C57
CN Kelco BT
CN Kelflo
CN Keltrol
CN Keltrol CG
CN Keltrol F
CN Keltrol RD
CN Keltrol SF
CN Keltrol T
CN Keltrol TF
CN Keltrol TF 1000
CN Kelzan
CN Kelzan 140X
CN Kelzan AR
CN Kelzan ASX
CN Kelzan D
CN Kelzan F
CN Kelzan M
CN Kelzan MF
CN Kelzan S
CN Kelzan SS 4000
CN Kelzan T
CN Kelzan XC
CN Kelzan XCD
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
DR 12673-42-6, 12771-06-1, 9088-32-8, 54511-23-8, 56592-13-3, 98112-77-7, 51811-95-1, 37189-49-4, 37279-85-9, 37332-19-7, 37383-52-1, 80450-59-5, 85568-76-9, 82600-55-3, 39393-27-6, 39444-54-7
MF Unspecified
CI PMS, COM, MAN
PCT Manual registration, Polyester, Polyester formed
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT,

ENCOMPPAT2, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, TOXCENTER, TULSA, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
7112 REFERENCES IN FILE CA (1962 TO DATE)
243 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
7126 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:78512

REFERENCE 2: 138:78509

REFERENCE 3: 138:78504

REFERENCE 4: 138:78503

REFERENCE 5: 138:78303

REFERENCE 6: 138:78210

REFERENCE 7: 138:78187

REFERENCE 8: 138:77321

REFERENCE 9: 138:77217

REFERENCE 10: 138:75726

L94 ANSWER 27 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **10043-52-4** REGISTRY
CN Calcium chloride (CaCl2) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Calcium chloride (8CI)
OTHER NAMES:
CN Bovikalc
CN Calcium dichloride
CN Calcium(2+) chloride
CN Calcosan
CN Calmate R
CN Calol
CN Calzina oral
CN Chrysoxel C 4
CN Daraccel
CN Dowflake
CN Liquidow
CN Peladow
CN Stopit
CN U-Ramin MC
DR 139468-93-2
MF Ca Cl2
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Cl—Ca—Cl

32025 REFERENCES IN FILE CA (1962 TO DATE)
216 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
32052 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:82531

REFERENCE 2: 138:82368

REFERENCE 3: 138:78520

REFERENCE 4: 138:78182

REFERENCE 5: 138:78033

REFERENCE 6: 138:78022

REFERENCE 7: 138:77756

REFERENCE 8: 138:77217

REFERENCE 9: 138:76421

REFERENCE 10: 138:75989

L94 ANSWER 28 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **9050-04-8** REGISTRY
CN Cellulose, carboxymethyl ether, calcium salt (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Ca carboxymethyl cellulose
CN Calcium carboxymethyl cellulose
CN Calcium cellulose glycolate
CN Calcium CM-cellulose
CN Carboxymethyl cellulose calcium salt
CN Carboxymethylcellulose Ca salt
CN Carmellose calcium
CN Cellulose glycolate calcium salt
CN CM-cellulose calcium
CN CM-Cellulose calcium salt
CN ECG 505
CN Hylon 600
DR 9060-76-8, 57406-72-1, 111941-77-6, 52627-96-0
MF C2 H4 O3 . x Ca . x Unspecified
CI COM
PCT Manual registration
LC STN Files: ANABSTR, BIOSIS, BIOTECHNO, CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MSDS-OHS, RTECS*, TOXCENTER, USAN, USPATFULL
(*File contains numerically searchable property data)
Other Sources: NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

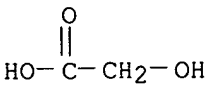
CM 1

CRN 9004-34-6
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 79-14-1
CMF C2 H4 O3



363 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
365 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:78444

REFERENCE 2: 138:66646

REFERENCE 3: 138:61321

REFERENCE 4: 137:342154

REFERENCE 5: 137:342124

REFERENCE 6: 137:316117

REFERENCE 7: 137:316064

REFERENCE 8: 137:268435

REFERENCE 9: 137:237785

REFERENCE 10: 137:237763

L94 ANSWER 29 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **9005-70-3** REGISTRY
CN Sorbitan, tri-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs. (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Sorbitan, tri-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z,Z,Z)-
CN Sorbitan, trioleate, polyoxyethylene derivs. (8CI)
OTHER NAMES:
CN Alkamuls T 85
CN Crill 12
CN Crillet 45
CN Emsorb 6903
CN Emsorb 6913
CN Ethoxylated sorbitan trioleate
CN Eumulgin STO 80
CN Glycosperse TO 20
CN Montanox 85
CN Newcol 3-85
CN Nikkol TO 30
CN Poly(oxyethylene) sorbitan trioleate
CN Polyethylene glycol sorbitan trioleate
CN Polyoxyethylene sorbitan trioleic acid ester
CN Polysorbate 85
CN Rheodol TW-O 320
CN Rikemal O 852

CN Sinopol 3-85
CN Sorbax PTO 20
CN Sorbimacrogol trioleate 300
CN Sorbitan polyethoxy trioleate
CN Sorbitan trioleate polyoxyethylene ether
CN Sorbon T 85
CN T-MAZ 85
CN TO 55
CN TO 65
CN Toximul SEE 340
CN Tween 85
CN Witconol AL 69-66
DR 9015-60-5, 1340-86-9, 51367-06-7, 111389-05-0
MF Unspecified
CI PMS, COM, MAN
PCT Manual registration
LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CHEMCATS, CHEMLIST, CIN, CSCHEM, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MSDS-OHS, PIRA, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
772 REFERENCES IN FILE CA (1962 TO DATE)
8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
774 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:78450

REFERENCE 2: 138:44585

REFERENCE 3: 138:40823

REFERENCE 4: 138:40671

REFERENCE 5: 138:28945

REFERENCE 6: 138:26966

REFERENCE 7: 138:1959

REFERENCE 8: 137:389139

REFERENCE 9: 137:365972

REFERENCE 10: 137:358152

L94 ANSWER 30 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **9005-64-5** REGISTRY
CN Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs. (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Ahco 7596T
CN Alkamuls PSML 20
CN Alkamuls T 20
CN Armotan PML 20
CN Atlas G 4280
CN Atlas G 7596J
CN Atlas G 7596P
CN Atmer 110
CN Crillet 1
CN Disponil SML 120

CN Emasol 1112
CN Emasol L 130
CN Emsorb 6915
CN Ethoxylated sorbitan monolaurate
CN Ethylene oxide-sorbitan monolaurate adduct
CN Ethylene oxide-sorbitan monolaurate polymer
CN Eumulgin SML 15
CN Eumulgin SML 20
CN G 1020
CN G 4280
CN G 7596J
CN G 7606J
CN GL 1
CN GL 1 (carbohydrate)
CN Glytanox 1001
CN Ionet T 20C
CN Kemotan T 20
CN Liposorb L 20
CN LT 221
CN ML 55F
CN Montanox 20
CN Nikkol TL 10
CN Nissan Nonion LT 204
CN Nissan Nonion LT 221
CN Nonion LT 221
CN Oxyethylated sorbitan monolaurate
CN Oxysorbic 20
CN POE sorbitan monolaurate
CN Poly(ethylene glycol) sorbitan ether monolaurate
CN Poly(oxyethylene sorbitan laurate)
CN Poly(oxyethylene)sorbitan ether monolaurate
CN Poly(oxyethylene)sorbitan monolaurate
CN Polyethylene glycol sorbitan monolaurate
CN Polyoxethylene sorbitan monolaurate
CN Polyoxyethylene sorbitan monododecanoate
CN Polyoxyethylene Span 20
CN Polysorbate 20
CN Polysorbate 21
CN Polysten 20
CN Radiasurf 7137
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
DR 8036-82-6, 9011-30-7, 9015-57-0, 1341-06-6, 122304-31-8, 54174-54-8, 60318-54-9, 129428-64-4, 62229-28-1, 118955-39-8, 37310-96-6, 93037-36-6, 194879-92-0
MF Unspecified
CI PMS, COM, MAN
PCT Manual registration, Polyether
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
5076 REFERENCES IN FILE CA (1962 TO DATE)
25 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5092 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:78459

REFERENCE 2: 138:78333

REFERENCE 3: 138:78256

REFERENCE 4: 138:78210

REFERENCE 5: 138:77217

REFERENCE 6: 138:75128

REFERENCE 7: 138:75009

REFERENCE 8: 138:74052

REFERENCE 9: 138:72181

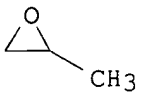
REFERENCE 10: 138:72140

L94 ANSWER 31 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **9003-11-6** REGISTRY
CN Oxirane, methyl-, polymer with oxirane (9CI) (CA INDEX NAME)
OTHER NAMES:
CN α-Hydro-ω-hydroxy-poly(oxyethylene)-poly(oxypropylene)
CN 1,2-Propanediol polymer with ethylene oxide
CN 333E
CN 50MB-26X
CN 75H380000
CN 75H90000
CN Acclaim 2220N
CN Actcol MF 12
CN Actcol MF 18
CN Actinol P 3035
CN Adeka Carpol MH 150
CN Adeka Carpol MH 500
CN Adeka Carpol PH 2000
CN Adeka CM 294
CN Adeka L 31
CN Adeka PR 3007
CN Adekanol NP 1200
CN Arlatone F 127G
CN Balab 615
CN Berol 370
CN Berol 374
CN Berol TVM 370
CN Bloatguard
CN Breox 50A1000
CN Breox 75W270
CN Breox PAG 50A1000
CN BSP 5000
CN Carpol 2040
CN Carpol 2050
CN CE
CN CF 0802
CN CP 1000
CN CP 1000 (polyoxyalkylene)
CN CP 2000L
CN DE 1
CN DE 1 (demulsifier)
CN Desmophen 7100
CN Dezemulsionat E 96
CN Disfoam CC 222
CN Dissolvan 4411
CN Emkalyx EP 64

CN Emkalyx L 101
CN Emulgen PP
CN Emulgen PP 150
CN Emulgen PP 250
CN Emulgen PP 290
CN EP 1660
CN Epan 420
CN Epan 610
CN Epan 720
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
AR 53637-25-5
DR 452069-47-5, 12676-40-3, 12772-49-5, 9003-12-7, 9009-02-3, 9009-03-4, 9009-04-5, 9009-05-6, 9009-06-7, 9010-49-5, 9010-97-3, 9015-66-1, 9050-44-6, 9061-69-2, 9067-43-0, 167267-50-7, 168018-54-0, 163032-64-2, 163063-49-8, 162627-00-1, 172306-19-3, 53637-72-2, 57971-91-2, 58968-65-3, 56730-46-2, 57219-38-2, 57571-70-7, 124057-63-2, 59494-33-6, 59794-22-8, 60328-61-2, 64940-96-1, 66746-25-6, 106717-66-2, 50643-24-8, 51312-31-3, 51569-27-8, 60976-75-2, 37211-19-1, 37211-20-4, 37211-21-5, 37211-22-6, 37211-23-7, 37211-24-8, 37221-18-4, 37265-39-7, 37307-38-3, 37331-16-1, 37331-17-2, 37341-81-4, 70213-25-1, 72319-37-0, 73158-62-0, 70644-95-0, 71343-56-1, 77448-18-1, 77752-09-1, 76050-76-5, 86249-84-5, 86304-35-0, 81180-56-5, 87912-55-8, 91858-59-2, 30600-73-8, 39277-80-0, 39316-56-8, 39316-57-9, 39364-13-1, 39387-54-7, 208342-25-0, 232598-91-3, 250780-00-8, 254903-86-1, 291775-89-8, 374624-82-5
MF (C3 H6 O . C2 H4 O)x
CI PMS, COM
PCT Polyether, Polyether formed
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PHAR, PIRA, PROMT, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, TSCA**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)

CM 1

CRN 75-56-9
CMF C3 H6 O



CM 2

CRN 75-21-8
CMF C2 H4 O

8110 REFERENCES IN FILE CA (1962 TO DATE)
2595 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
8118 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:78482

REFERENCE 2: 138:78474

REFERENCE 3: 138:78451

REFERENCE 4: 138:78449

REFERENCE 5: 138:78444

REFERENCE 6: 138:78194

REFERENCE 7: 138:78146

REFERENCE 8: 138:77327

REFERENCE 9: 138:75914

REFERENCE 10: 138:75908

L94 ANSWER 32 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **9000-07-1** REGISTRY
CN Carrageenan (9CI) (CA INDEX NAME)
OTHER NAMES:
CN κλ-Carrageenan
CN 22: PN: WO0175077 SEQID: 25 claimed sequence
CN Aubygum x 2
CN Aubygum X 23
CN Carrageenan GH
CN Carrageenan gum
CN Carrageenan SWG-J
CN Carrageenin
CN Carragheen
CN Carragheenan
CN EC 4000
CN FK 6101
CN FK 6120
CN Gelcarin GP 37ANF
CN Gelcarin HWG
CN Gelloid J
CN Gelozone
CN Genugel LC 4
CN Genugel LC 5
CN Genugel MG 11
CN Genugel RLV
CN Genuvisco J
CN Genuvisco TPH-1
CN Gum carrageenan
CN Gum chon 2
CN Gum chond
CN Inagel E 150
CN Isagel RG 300
CN LSS 1
CN ME 913
CN Newgelin LB 4
CN Norsk gelatan
CN Pellugel
CN Pencogel
CN Satiagel NP 5B
CN Sea-Pi Gum FA
CN Seagel GH
CN Seagel Pet
CN SeaKem carrageenin

CN SeaKem CM 611
CN Sherex IC 109
CN Soa Ace WX 138
CN Soa Ace WX 165
CN Soageena MM 501
CN Soageena MW 351
CN Soageena WX 560
CN T 307 (gellant)
CN Takaragen G 50
CN Takaragen L
CN TIC Pretested Colloid 775
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
DR 8040-42-4, 9000-13-9, 9000-27-5, 78005-48-8
MF Unspecified
CI PMS, COM, MAN
PCT Manual registration, Polyother, Polyother only
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
4174 REFERENCES IN FILE CA (1962 TO DATE)
125 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
4183 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:78509

REFERENCE 2: 138:78210

REFERENCE 3: 138:78187

REFERENCE 4: 138:77609

REFERENCE 5: 138:72585

REFERENCE 6: 138:72314

REFERENCE 7: 138:72087

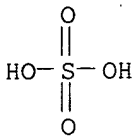
REFERENCE 8: 138:72069

REFERENCE 9: 138:66907

REFERENCE 10: 138:66690

L94 ANSWER 33 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **7487-88-9** REGISTRY
CN Sulfuric acid magnesium salt (1:1) (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Epsom salt
CN Epsom salts
CN Magnesium sulfate
CN Magnesium sulfate (1:1)
CN Magnesium sulphate
CN OT-S
CN OT-S (drying agent)

CN Sulfuric acid magnesium salt
CN Sulfuric acid, magnesium salt (1:1)
CN Tomix OT
AR 18939-43-0
DR 139939-75-6
MF H2 O4 S . Mg
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (7664-93-9)



● Mg

12483 REFERENCES IN FILE CA (1962 TO DATE)
87 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
12498 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:81747

REFERENCE 2: 138:77373

REFERENCE 3: 138:76301

REFERENCE 4: 138:74989

REFERENCE 5: 138:73378

REFERENCE 6: 138:72644

REFERENCE 7: 138:72336

REFERENCE 8: 138:72185

REFERENCE 9: 138:72011

REFERENCE 10: 138:72006

L94 ANSWER 34 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **7440-70-2** REGISTRY
CN Calcium (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Atomic calcium
CN Blood-coagulation factor IV

CN Calcium atom
CN Calcium element
CN Praval
DR 8047-59-4
MF Ca
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PHARMASEARCH, PIRA, PROMT, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Ca

305816 REFERENCES IN FILE CA (1962 TO DATE)
6524 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
305925 REFERENCES IN FILE CAPLUS (1962 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:82583

REFERENCE 2: 138:82570

REFERENCE 3: 138:82568

REFERENCE 4: 138:82519

REFERENCE 5: 138:82515

REFERENCE 6: 138:82488

REFERENCE 7: 138:81750

REFERENCE 8: 138:80919

REFERENCE 9: 138:80778

REFERENCE 10: 138:80777

L94 ANSWER 35 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **7440-66-6** REGISTRY
CN Zinc (7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN AN 325
CN Asarco L 15
CN Blue powder
CN Ecka 4
CN F 1000
CN F 1000 (metal)
CN F 1500T
CN F 2000
CN F 2000 (metal)
CN LS 2
CN LS 2 (element)
CN LS 4
CN LS 5

CN LS 5 (metal)
CN MCS
CN MCS (metal)
CN NC-Zinc
CN Rheinzink
CN UF
CN UF (metal)
CN VM 4P16
CN Zinc Dust 3
DR 12793-53-2, 195161-85-4, 199281-21-5, 298688-49-0
MF Zn
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PHARMASEARCH, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Zn

224704 REFERENCES IN FILE CA (1962 TO DATE)
11496 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
224822 REFERENCES IN FILE CAPLUS (1962 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:82601

REFERENCE 2: 138:82568

REFERENCE 3: 138:82547

REFERENCE 4: 138:82543

REFERENCE 5: 138:82525

REFERENCE 6: 138:82519

REFERENCE 7: 138:82517

REFERENCE 8: 138:82488

REFERENCE 9: 138:82487

REFERENCE 10: 138:82303

L94 ANSWER 36 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **7440-50-8** REGISTRY
CN Copper (7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 100RXH
CN 1100T
CN 115A
CN 1721 Gold
CN 200RL
CN 22BB400
CN 2L3GT

CN 3EC
CN 3EC-HTE
CN 3EC-III
CN 3EC-VLP
CN 3EC3
CN 3L Fire
CN Allbri Natural Copper
CN Arwood copper
CN BHN 02T
CN BHY 02B-T
CN BHY 13HT
CN BHY 13T
CN BHY 22B-T
CN BPF 18
CN BSH
CN BSH (metal)
CN C 100
CN C 100 (metal)
CN C.I. 77400
CN C.I. Pigment Metal 2
CN CDX
CN CDX (metal)
CN CE 1100
CN CE 1110
CN CE 115
CN CE 15
CN CE 25
CN CE 7
CN CE 7 (metal)
CN CE 8A
CN CF 78
CN CF-T 8
CN Copper element
CN Copper Powder
CN CS-F 150E
CN CT 315E
CN CU 112
CN Cu-At-W 250
CN CU-FN 10
CN Cu-HWQ
CN CuEP
CN CuEPP
CN CuLox 6010
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
DR 133353-46-5, 133353-47-6, 65555-90-0, 72514-83-1, 195161-80-9
MF Cu
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Cu

401834 REFERENCES IN FILE CA (1962 TO DATE)
20914 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
402077 REFERENCES IN FILE CAPLUS (1962 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:82644

REFERENCE 2: 138:82585

REFERENCE 3: 138:82584

REFERENCE 4: 138:82570

REFERENCE 5: 138:82567

REFERENCE 6: 138:82547

REFERENCE 7: 138:82521

REFERENCE 8: 138:82519

REFERENCE 9: 138:82517

REFERENCE 10: 138:82488

L94 ANSWER 37 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **7439-96-5** REGISTRY
CN Manganese (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Colloidal manganese
CN Cutaval
CN JIS-G 1213
CN Manganese element
CN Manganese fulleride (MnC20)
CN Manganese-55
DR 8031-40-1, 8075-39-6, 17375-02-9, 39303-06-5, 195161-78-5
MF Mn
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Mn

141579 REFERENCES IN FILE CA (1962 TO DATE)
7014 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
141690 REFERENCES IN FILE CAPLUS (1962 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:82601

REFERENCE 2: 138:82585

REFERENCE 3: 138:82568

REFERENCE 4: 138:82562

REFERENCE 5: 138:82519

REFERENCE 6: 138:82517

REFERENCE 7: 138:82488

REFERENCE 8: 138:82466

REFERENCE 9: 138:82136

REFERENCE 10: 138:82123

L94 ANSWER 38 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **7439-95-4** REGISTRY
CN Magnesium (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN JIS 1
CN Magnesium element
CN PK 31
CN PK 31 (magnesium)
CN Rieke's active magnesium
DR 14147-08-1, 67208-78-0, 199281-20-4, 298688-48-9
MF Mg
CI COM
LC STN Files: ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Mg

165199 REFERENCES IN FILE CA (1962 TO DATE)
6224 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
165330 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:82570

REFERENCE 2: 138:82568

REFERENCE 3: 138:82519

REFERENCE 4: 138:82488

REFERENCE 5: 138:82313

REFERENCE 6: 138:82302

REFERENCE 7: 138:82042

REFERENCE 8: 138:81947

REFERENCE 9: 138:81750

REFERENCE 10: 138:81743

L94 ANSWER 39 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **7439-93-2** REGISTRY
CN Lithium (7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Lithium atom
CN Lithium element
MF Li
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Li

64251 REFERENCES IN FILE CA (1962 TO DATE)
5310 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
64293 REFERENCES IN FILE CAPLUS (1962 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:82519

REFERENCE 2: 138:82370

REFERENCE 3: 138:81743

REFERENCE 4: 138:81499

REFERENCE 5: 138:81141

REFERENCE 6: 138:80391

REFERENCE 7: 138:80357

REFERENCE 8: 138:80350

REFERENCE 9: 138:80335

REFERENCE 10: 138:80155

L94 ANSWER 40 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **7439-89-6** REGISTRY
CN Iron (7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 300A
CN 3ZhP
CN A 227
CN Ancor B
CN Ancor EN 80/150
CN AQ 80
CN Armco iron
CN Atomel 300M200
CN Atomel 500M

CN Atomet 28
CN Atomet 95
CN Atomiron 44MR
CN Atomiron 5M
CN Atomiron AFP 25
CN Atomiron AFP 5
CN ATW 230
CN ATW 432
CN BASF-EW
CN Carbon 0.17, iron 99.83 (atomic)
CN Carbonyl iron
CN Copy Powder CS 105-175
CN DH
CN Diseases (animal), iron overload
CN Diseases, iron overload
CN DSP 1000
CN DSP 128B
CN DSP 135
CN DSP 135C
CN DSP 138
CN EF 1000
CN EF 250
CN EFV
CN EFV 200/300
CN EFV 250
CN EFV 250/400
CN EO 5A
CN F 60
CN F 60 (metal)
CN Ferrovac E
CN FT 3
CN FT 3 (element)
CN GS 6
CN HF 2
CN HF 2 (element)
CN HL (iron)
CN Hoeganaes ATW 230
CN Hoeganaes EH
CN HQ
CN HQ (metal)
CN HS (iron)
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
DR 8011-79-8, 8053-60-9, 129048-51-7, 73135-38-3, 70884-35-4, 39344-71-3, 190454-13-8, 195161-83-2, 199281-22-6, 443783-52-6
MF Fe
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PHARMASEARCH, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Fe

315570 REFERENCES IN FILE CA (1962 TO DATE)

17891 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
315740 REFERENCES IN FILE CAPLUS (1962 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:82585

REFERENCE 2: 138:82580

REFERENCE 3: 138:82577

REFERENCE 4: 138:82573

REFERENCE 5: 138:82562

REFERENCE 6: 138:82549

REFERENCE 7: 138:82537

REFERENCE 8: 138:82528

REFERENCE 9: 138:82525

REFERENCE 10: 138:82522

L94 ANSWER 41 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **7429-90-5** REGISTRY
CN Aluminum (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 0670TS
CN 0900X
CN 1001M
CN 102B
CN 102C
CN 1100H24
CN 1100P-H18
CN 13T
CN 350D
CN 350F
CN 40XD
CN 5422NS
CN 5654NS
CN 5N
CN 5XD
CN 716ON
CN 725EA
CN 725N
CN 7620NS
CN 7640NS
CN 8011A
CN 97-4071RE
CN A 1-18000
CN A 5052H34
CN A 6063S
CN A 95
CN A 95 (metal)
CN A 99
CN A 99 (metal)
CN A 999
CN A 999V
CN A 99N
CN AA 15
CN AB 1003
CN AC 0460

CN AC 1000
CN AC 1000 (metal)
CN AC 1003
CN AC 2500
CN AC 5000
CN AC 5005
CN AIH 30H
CN AIH 30H-0
CN Aisin Metal Fiber
CN Al 050P-H24
CN Al 18000
CN AL-AT 250
CN Al-At 500F
CN Albo F
CN ALC Fine
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
DR 12766-45-9, 113962-66-6, 37202-64-5, 80341-19-1, 91728-14-2, 39302-71-1, 39332-62-2, 182260-45-3, 185464-37-3, 257888-99-6, 298688-47-8
MF Al
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Al

295751 REFERENCES IN FILE CA (1962 TO DATE)
8839 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
295866 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:82571

REFERENCE 2: 138:82554

REFERENCE 3: 138:82490

REFERENCE 4: 138:82461

REFERENCE 5: 138:82313

REFERENCE 6: 138:82311

REFERENCE 7: 138:82308

REFERENCE 8: 138:82302

REFERENCE 9: 138:82136

REFERENCE 10: 138:82130

L94 ANSWER 42 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **1492-18-8** REGISTRY
CN L-Glutamic acid, N-[4-[[(2-amino-5-formyl-1,4,5,6,7,8-hexahydro-4-oxo-6-

pteridinyl)methyl]amino]benzoyl]-, calcium salt (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

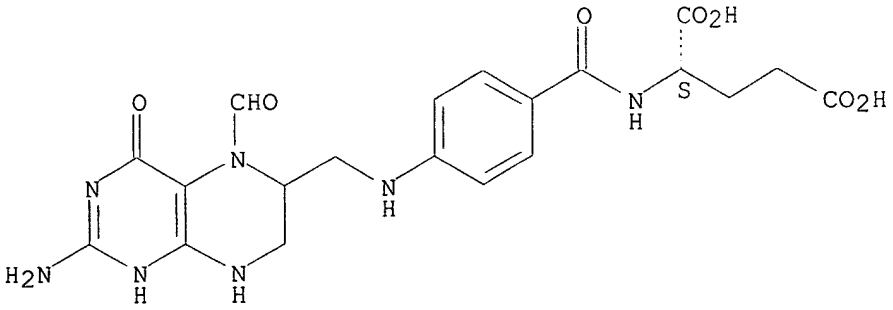
CN Glutamic acid, N-[p-[[(2-amino-5-formyl-5,6,7,8-tetrahydro-4-hydroxy-6-pteridinyl)methyl]amino]benzoyl]-, calcium salt (1:1), L- (8CI)

OTHER NAMES:

CN Calcium 5-formyltetrahydrofolate
CN Calcium folinate
CN Calcium L-folinate
CN Calcium leucovorin
CN Folinic acid calcium salt
CN Lederfoline
CN Leucovorin calcium
CN Leucovorin calcium salt
CN Rescuvolin
FS STEREOSEARCH
DR 6035-86-5, 6209-45-6, 30771-29-0
MF C20 H23 N7 O7 . Ca
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGU, EMBASE, HSDB*, MSDS-OHS, PHARMASEARCH, PROMT, RTECS*, TOXCENTER, USAN, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)

CRN (58-05-9)

Absolute stereochemistry.



● Ca

131 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
131 REFERENCES IN FILE CAPLUS (1962 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:78473

REFERENCE 2: 138:61373

REFERENCE 3: 138:11274

REFERENCE 4: 137:362991

REFERENCE 5: 137:320299

REFERENCE 6: 137:257635

REFERENCE 7: 137:195570

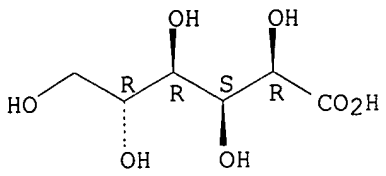
REFERENCE 8: 137:103549

REFERENCE 9: 137:57367

REFERENCE 10: 137:15155

L94 ANSWER 43 OF 43 REGISTRY COPYRIGHT 2003 ACS
RN **299-28-5** REGISTRY
CN D-Gluconic acid, calcium salt (2:1) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Gluconic acid, calcium salt (2:1), D- (8CI)
OTHER NAMES:
CN Biocal
CN Calcicol
CN Calciofon
CN Calcipur
CN Calcium D-gluconate
CN Calcium gluconate
CN Calcium hexagluconate
CN Calglucol
CN Calglucon
CN Dragocal
CN Ebucin
CN Glucal
CN Glucobiogen
CN Kalpren
CN Novocal
FS STEREOSEARCH
DR 18016-24-5, 3414-35-5
MF C6 H12 O7 . 1/2 Ca
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (526-95-4)

Absolute stereochemistry.



●1/2 Ca

1529 REFERENCES IN FILE CA (1962 TO DATE)
10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1529 REFERENCES IN FILE CAPLUS (1962 TO DATE)
7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:78539

REFERENCE 2: 138:61315

REFERENCE 3: 138:33365

REFERENCE 4: 138:29206

REFERENCE 5: 138:10749

REFERENCE 6: 138:8350

REFERENCE 7: 138:8313

REFERENCE 8: 138:412

REFERENCE 9: 137:389223

REFERENCE 10: 137:389146